Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-106-SA5DN-SB-9.0-10.0 **Collected:** 6/23/2011 11:55:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.177	J	0.0812	MDL	0.219	PQL	mg/Kg	U	B
SILVER	0.0918	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 **Collected:** 6/23/2011 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	0.228		0.0795	MDL	0.215	PQL	mg/Kg	U	B

Sample ID: SL-109-SA5DN-SB-3.5-4.5 **Collected:** 6/23/2011 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	0.114	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5DN-SB-3.5-4.5 **Collected:** 6/23/2011 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	0.115	J	0.0755	MDL	0.204	PQL	mg/Kg	U	B
CADMIUM	0.0715	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z
SILVER	0.0703	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 9:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0846	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 9:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.233		0.0785	MDL	0.212	PQL	mg/Kg	U	B
SILVER	0.0851	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 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	0.65	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 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	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 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	0.67	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-104-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 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
MERCURY	0.0129	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 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
MERCURY	0.0121	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 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	0.0189	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0814	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* REA *Dilution:* 1

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

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.86	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 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
EFH (C30-C40)	0.99	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 11:50:00 *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)	0.74	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.76	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 1

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

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.62	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.74	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 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
ACENAPHTHYLENE	0.50	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.8	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.5	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-102-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 2:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.45	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.53	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 2:25:00 ***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	7.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 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
ANTHRACENE	0.76	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 11:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.0	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.44	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-9.0-10.0 ***Collected:*** 6/23/2011 11:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.3	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA5DN-SB-3.5-4.5 ***Collected:*** 6/23/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-100-SA5DN-SB-3.0-4.0 ***Collected:*** 6/23/2011 8:30:00 ***Analysis Type:*** RES ***Dilution:*** 0.81

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-101-SA5DN-SB-2.5-3.5 ***Collected:*** 6/23/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.24	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-102-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 2:55:00 ***Analysis Type:*** RES ***Dilution:*** 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	3.1	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-104-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.9	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-105-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 3:30:00 ***Analysis Type:*** RES ***Dilution:*** 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.3	J	6.5	MDL	7.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.7	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-106-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.5	J	0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-106-SA5DN-SB-9.0-10.0 ***Collected:*** 6/23/2011 11:55:00 ***Analysis Type:*** RES ***Dilution:*** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.9	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	7.2		0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.07	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.3	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE187

Method Blank Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17908BB221219	7/7/2011 12:19:00 PM	TIN	1.71 mg/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0
P17908BB222208	7/4/2011 10:08:00 PM	ALUMINUM BORON CALCIUM IRON LITHIUM PHOSPHORUS STRONTIUM	7.61 mg/Kg 0.614 mg/Kg 9.04 mg/Kg 4.88 mg/Kg 1.5 mg/Kg 1.60 mg/Kg 0.0620 mg/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(REA)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	TIN	3.42 mg/Kg	3.42U mg/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	TIN	3.67 mg/Kg	3.67U mg/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	TIN	3.59 mg/Kg	3.59U mg/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	TIN	3.54 mg/Kg	3.54U mg/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	TIN	3.60 mg/Kg	3.60U mg/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	TIN	3.82 mg/Kg	3.82U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17926AB221719A	6/29/2011 5:19:00 PM	ANTIMONY VANADIUM	0.178 mg/Kg 0.0772 mg/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(RES)	ANTIMONY	0.329 mg/Kg	0.329U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-101-SA5DN-SB-2.5-3.5(RES)	ANTIMONY	0.208 mg/Kg	0.208U mg/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.230 mg/Kg	0.230U mg/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.294 mg/Kg	0.294U mg/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.333 mg/Kg	0.333U mg/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.254 mg/Kg	0.254U mg/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.177 mg/Kg	0.177U mg/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	ANTIMONY	0.228 mg/Kg	0.228U mg/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	ANTIMONY	0.115 mg/Kg	0.115U mg/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.233 mg/Kg	0.233U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB01B211216A	6/28/2011 12:16:00 PM	METHYLENE CHLORIDE TOLUENE	1.4 ug/Kg 0.08 ug/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	3.7U ug/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	3.9U ug/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	TOLUENE	0.09 ug/Kg	3.9U ug/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.1 ug/Kg	4.1U ug/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	3.8U ug/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	3.9U ug/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	3.7U ug/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	3.7U ug/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.1U ug/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	TOLUENE	0.11 ug/Kg	4.1U ug/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	7.2 ug/Kg	7.2U ug/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	TOLUENE	0.07 ug/Kg	3.7U ug/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	3.7U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA5DN-SB-4.0-5.0MS SL-102-SA5DN-SB-4.0-5.0MSD (SL-102-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	23 58	28 -	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5DN-SB-3.0-4.0MS (SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5DN-SB-3.0-4.0DUP (SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0)	FLUORIDE	26	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE187 Laboratory: LL

EDD Filename: DE187_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11769AY241944A (SL-100-SA5DN -SB-3.0-4.0 SL -101-SA5DN -SB-2.5-3.5 SL -102-SA5DN -SB-4.0-5.0 SL -104-SA5DN -SB-4.0-5.0 SL -105-SA5DN -SB-4.0-5.0 SL -106-SA5DN -SB-4.0-5.0 SL -106-SA5DN -SB-9.0-10.0 SL -107-SA5DN -SB-3.5-4.5 SL -109-SA5DN -SB-3.5-4.5 SL -110-SA5DN -SB-4.0-5.0)	Aroclor 5442	-	111	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P17926AQ221722A (SL-100-SA5DN -SB-3.0-4.0 SL -101-SA5DN -SB-2.5-3.5 SL -102-SA5DN -SB-4.0-5.0 SL -104-SA5DN -SB-4.0-5.0 SL -105-SA5DN -SB-4.0-5.0 SL -106-SA5DN -SB-4.0-5.0 SL -106-SA5DN -SB-9.0-10.0 SL -107-SA5DN -SB-3.5-4.5 SL -109-SA5DN -SB-3.5-4.5 SL -110-SA5DN -SB-4.0-5.0)	ANTIMONY	131	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-109-SA5DN-SB-3.5-4.5	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	TIN	J	2.71	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.88	5.61	PQL	mg/Kg	
SL-101-SA5DN-SB-2.5-3.5	SODIUM	J	96.9	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	10.2	PQL	mg/Kg	
	Zirconium	J	4.48	5.12	PQL	mg/Kg	
SL-102-SA5DN-SB-4.0-5.0	TIN	J	3.42	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.04	5.23	PQL	mg/Kg	
SL-104-SA5DN-SB-4.0-5.0	TIN	J	3.67	10.8	PQL	mg/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	TIN	J	3.48	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.51	5.46	PQL	mg/Kg	
SL-106-SA5DN-SB-4.0-5.0	TIN	J	3.48	10.8	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	TIN	J	3.59	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.43	PQL	mg/Kg	
SL-107-SA5DN-SB-3.5-4.5	TIN	J	3.54	10.7	PQL	mg/Kg	J (all detects)
SL-109-SA5DN-SB-3.5-4.5	TIN	J	3.60	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.52	5.10	PQL	mg/Kg	
SL-110-SA5DN-SB-4.0-5.0	TIN	J	3.82	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.45	5.25	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	SELENIUM	J	0.123	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0955	0.109	PQL	mg/Kg	
SL-101-SA5DN-SB-2.5-3.5	SELENIUM	J	0.119	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0426	0.102	PQL	mg/Kg	
SL-102-SA5DN-SB-4.0-5.0	SELENIUM	J	0.144	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0333	0.103	PQL	mg/Kg	
SL-104-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0805	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0954	0.110	PQL	mg/Kg	
SL-105-SA5DN-SB-4.0-5.0	SELENIUM	J	0.146	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0519	0.106	PQL	mg/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0789	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0608	0.109	PQL	mg/Kg	
SL-106-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.177	0.219	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0918	0.110	PQL	mg/Kg	
SL-109-SA5DN-SB-3.5-4.5	ANTIMONY	J	0.115	0.204	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0715	0.102	PQL	mg/Kg	
	SELENIUM	J	0.114	0.408	PQL	mg/Kg	
	SILVER	J	0.0703	0.102	PQL	mg/Kg	
SL-110-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0846	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0851	0.106	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.67	1.1	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA5DN-SB-4.0-5.0	MERCURY	J	0.0129	0.112	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	MERCURY	J	0.0121	0.106	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	MERCURY	J	0.0189	0.109	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	MERCURY	J	0.0814	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.86	1.3	PQL	mg/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.3	PQL	mg/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.99	1.3	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.74	1.3	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.76	1.3	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	EFH (C30-C40)	J	0.50	1.3	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA5DN-SB-3.5-4.5	EFH (C30-C40)	J	0.62	1.3	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.74	1.3	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	METHYLENE CHLORIDE	J	1.4	3.7	PQL	ug/Kg	J (all detects)
SL-101-SA5DN-SB-2.5-3.5	METHYLENE CHLORIDE TOLUENE	J J	1.8 0.09	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-102-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.1	4.1	PQL	ug/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.9	3.8	PQL	ug/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	ACETONE METHYLENE CHLORIDE	J J	7.3 1.7	7.8 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.5 0.14	3.7 3.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.5	4.1	PQL	ug/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	METHYLENE CHLORIDE TOLUENE	J J	1.9 0.11	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-109-SA5DN-SB-3.5-4.5	TOLUENE	J	0.07	3.7	PQL	ug/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	3.7	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	ACENAPHTHYLENE ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE DIBENZO(A,H)ANTHRACENE FLUORENE PHENANTHRENE	J J J J J J	0.50 1.3 12 1.4 1.0 1.7	1.9 1.9 20 1.9 1.9 1.9	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-101-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.5	19	PQL	ug/Kg	J (all detects)
SL-102-SA5DN-SB-4.0-5.0	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE	J J J	0.45 6.4 0.53	1.8 19 1.8	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	20	PQL	ug/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE	J J	0.76 8.9	1.8 20	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE	J J J	1.0 7.0 0.44	1.9 20 1.9	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	7.5 8.3	20 20	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-109-SA5DN-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	19	PQL	ug/Kg	J (all detects)

LDC #: 26277R4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE187 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	client specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	NA	Lcs
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
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-100-SA5DN-SB-3.0-4.0	11		21		31	
2	SL-101-SA5DN-SB-2.5-3.5	12		22		32	
3	SL-102-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-104-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-105-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-106-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-106-SA5DN-SB-9.0-10.0	17		27		37	
8	SL-107-SA5DN-SB-3.5-4.5	18		28		38	
9	SL-109-SA5DN-SB-3.5-4.5	19		29		39	
10	SL-110-SA5DN-SB-4.0-5.0	20		30		40	

Notes: Acc from DB188

SAMPLE DELIVERY GROUP

DE188

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	TB-062411	6328456	TB	5030B	8015M	III
24-Jun-2011	TB-062411	6328456	TB	5030B	8260B	III
24-Jun-2011	TB-062411	6328456	TB	5030B	8260B SIM	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3050B	6010B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3050B	6020	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3060A	7199	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3546	1625C	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8082	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8270C	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8270C SIM	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	5035	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	5035	8260B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	5035	8260B SIM	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	8330	8330A	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	300.0	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	314.0	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	7471A	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	8315A	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0DU	P328454D272017B	DUP	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0MS	P328454R272018B	MS	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3050B	6020	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3060A	7199	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3546	1625C	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8082	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8270C	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8270C SIM	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	5035	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	5035	8260B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	5035	8260B SIM	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	8330	8330A	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	300.0	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	314.0	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	7471A	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	8315A	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0MS	P328453R320425A	MS	3550B	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0MS	P328453R321902A	MS	METHOD	8015B	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3550B	8082	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3550B	8270C SIM	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	METHOD	314.0	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	METHOD	7471A	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3550B	8082	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3550B	8270C	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3550B	8270C SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	5035	8260B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	5035	8260B SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	314.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	6850	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	7471A	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3550B	8082	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3550B	8270C	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3550B	8270C SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	5035	8260B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	5035	8260B SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	6850	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	7471A	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	METHOD	314.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	METHOD	7471A	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3050B	6010B	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3050B	6020	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3060A	7199	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3550B	8082	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3550B	8270C	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3550B	8270C SIM	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	5035	8260B	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	5035	8260B SIM	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	METHOD	300.0	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	METHOD	314.0	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	METHOD	7471A	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3050B	6010B	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3050B	6020	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3060A	7199	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3550B	8082	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3550B	8270C	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3550B	8270C SIM	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	5035	8260B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	5035	8260B SIM	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	300.0	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	314.0	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	6850	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	7471A	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3050B	6010B	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3050B	6020	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3060A	7199	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3550B	8082	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3550B	8270C	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3550B	8270C SIM	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	5035	8260B	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	5035	8260B SIM	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	300.0	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	314.0	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	6850	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 **Collected:** 6/24/2011 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	3.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-091-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 12:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.96	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 10:18:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-092-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 10:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.2		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-103-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.3	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.5	J	0.94	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory:** LL

EDD Filename: PrepDE188 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	44000		15.4	MDL	118	PQL	mg/Kg	J	A

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 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
POTASSIUM	4050		13.3	MDL	58.9	PQL	mg/Kg	J	Q
TIN	3.99	J	0.377	MDL	11.8	PQL	mg/Kg	U	B

Sample ID: SL-091-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 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
IRON	28600		3.00	MDL	23.0	PQL	mg/Kg	J	A
POTASSIUM	3230		13.0	MDL	57.5	PQL	mg/Kg	J	Q
SODIUM	105	J	6.84	MDL	115	PQL	mg/Kg	J	Z
TIN	3.79	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.63	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 10:18:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.47	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-092-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 10:18:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	33800		14.6	MDL	112	PQL	mg/Kg	J	A

Sample ID: SL-092-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 10:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3830		12.6	MDL	55.8	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 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
IRON	26600		2.98	MDL	22.8	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory:** LL

EDD Filename: PrepDE188 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-092-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 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
POTASSIUM	3100		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	3.73	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.50	J	0.525	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25600		2.81	MDL	21.5	PQL	mg/Kg	J	A
POTASSIUM	2950		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	3.47	J	0.344	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-103-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.98	MDL	22.8	PQL	mg/Kg	J	A
POTASSIUM	2420		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	3.35	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	2.49	J	0.525	MDL	5.70	PQL	mg/Kg	U	B

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	36700		14.7	MDL	113	PQL	mg/Kg	J	A

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 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
POTASSIUM	3520		12.7	MDL	56.4	PQL	mg/Kg	J	Q
TIN	3.88	J	0.361	MDL	11.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 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	0.0799	J	0.0670	MDL	0.462	PQL	mg/Kg	J	Z, Q, FD

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 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	0.436		0.0577	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 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	178		0.122	MDL	0.462	PQL	mg/Kg	J	A

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 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	0.280		0.0855	MDL	0.231	PQL	mg/Kg	UJ	E, B
ARSENIC	7.82		0.0924	MDL	0.462	PQL	mg/Kg	J	E, A
BERYLLIUM	1.08		0.0185	MDL	0.115	PQL	mg/Kg	J	Q, E
CADMIUM	0.318		0.0508	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	34.3		0.139	MDL	0.462	PQL	mg/Kg	J	Q, E
COBALT	12.6		0.0231	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	20.3		0.0924	MDL	0.462	PQL	mg/Kg	J	Q, E, A
LEAD	12.9		0.0118	MDL	0.231	PQL	mg/Kg	J	E, A
NICKEL	28.2		0.115	MDL	0.462	PQL	mg/Kg	J	Q, E, A
SILVER	0.0374	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.369		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	57.4		0.0254	MDL	0.115	PQL	mg/Kg	J	E
ZINC	85.2		0.647	MDL	3.46	PQL	mg/Kg	J	E, A

Sample ID: SL-091-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 12:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0885	MDL	0.239	PQL	mg/Kg	U	B
SILVER	0.0768	J	0.0170	MDL	0.120	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-091-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 12:35:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0694	MDL	0.478	PQL	mg/Kg	J	Z

Sample ID: **SL-092-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 10:18:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z, Q, FD

Sample ID: **SL-092-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 10:18:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.518		0.0558	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: **SL-092-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 10:18:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	182		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: **SL-092-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 10:18:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.460		0.0826	MDL	0.223	PQL	mg/Kg	UJ	E, B
ARSENIC	10.1		0.0893	MDL	0.446	PQL	mg/Kg	J	E, A
BERYLLIUM	1.28		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.370		0.0491	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	42.5		0.134	MDL	0.446	PQL	mg/Kg	J	Q, E
COBALT	16.7		0.0223	MDL	0.112	PQL	mg/Kg	J	Q, E, A
COPPER	23.7		0.0893	MDL	0.446	PQL	mg/Kg	J	Q, E, A
LEAD	13.7		0.0114	MDL	0.223	PQL	mg/Kg	J	E, A
NICKEL	31.7		0.112	MDL	0.446	PQL	mg/Kg	J	Q, E, A
SILVER	0.0675	J	0.0158	MDL	0.112	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.423		0.0335	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	77.2		0.0246	MDL	0.112	PQL	mg/Kg	J	E
ZINC	99.0		0.625	MDL	3.35	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-092-SA5DN-SB-7.0-8.0** ***Collected:*** **6/24/2011 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	0.297		0.0570	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: **SL-092-SA5DN-SB-7.0-8.0** ***Collected:*** **6/24/2011 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	120		0.121	MDL	0.456	PQL	mg/Kg	J	A

Sample ID: **SL-092-SA5DN-SB-7.0-8.0** ***Collected:*** **6/24/2011 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	0.255		0.0844	MDL	0.228	PQL	mg/Kg	UJ	E, B
ARSENIC	5.92		0.0913	MDL	0.456	PQL	mg/Kg	J	E, A
BERYLLIUM	0.705		0.0183	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.368		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	26.9		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E
COBALT	9.04		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	13.4		0.0913	MDL	0.456	PQL	mg/Kg	J	Q, E, A
LEAD	8.37		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	18.8		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E, A
SILVER	0.0480	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.304		0.0342	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	50.5		0.0251	MDL	0.114	PQL	mg/Kg	J	E
ZINC	58.7		0.639	MDL	3.42	PQL	mg/Kg	J	E, A

Sample ID: **SL-103-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 9:15:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-103-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 9:15:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.36		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory:** LL

EDD Filename: PrepDE188 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-103-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 9:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.114	MDL	0.430	PQL	mg/Kg	J	A

Sample ID: SL-103-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.322		0.0795	MDL	0.215	PQL	mg/Kg	UJ	E, B
ARSENIC	9.53		0.0860	MDL	0.430	PQL	mg/Kg	J	E, A
BERYLLIUM	0.905		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.423		0.0473	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	35.5		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E
COBALT	9.23		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E, A
COPPER	20.7		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, E, A
LEAD	12.8		0.0110	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	23.0		0.107	MDL	0.430	PQL	mg/Kg	J	Q, E, A
SILVER	0.0729	J	0.0153	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.316		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	54.7		0.0236	MDL	0.107	PQL	mg/Kg	J	E
ZINC	76.6		0.602	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 9:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.456		0.0576	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 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	71.1		0.122	MDL	0.461	PQL	mg/Kg	J	A

Sample ID: SL-103-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 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	0.147	J	0.0853	MDL	0.230	PQL	mg/Kg	UJ	E, B
ARSENIC	5.75		0.0922	MDL	0.461	PQL	mg/Kg	J	E, A
BERYLLIUM	0.580		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory:** LL

EDD Filename: PrepDE188 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-103-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 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
CADMIUM	0.169		0.0507	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	19.0		0.138	MDL	0.461	PQL	mg/Kg	J	Q, E
COBALT	7.94		0.0230	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	9.90		0.0922	MDL	0.461	PQL	mg/Kg	J	Q, E, A
LEAD	6.07		0.0118	MDL	0.230	PQL	mg/Kg	J	E, A
NICKEL	14.9		0.115	MDL	0.461	PQL	mg/Kg	J	Q, E, A
SILVER	0.0570	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.244		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	35.5		0.0253	MDL	0.115	PQL	mg/Kg	J	E
ZINC	49.0		0.645	MDL	3.46	PQL	mg/Kg	J	E, A

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 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	0.0840	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 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	0.447		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** REA3 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.287	MDL	1.08	PQL	mg/Kg	J	A

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 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	0.352		0.0802	MDL	0.217	PQL	mg/Kg	UJ	E, B
ARSENIC	8.54		0.0867	MDL	0.434	PQL	mg/Kg	J	E, A
BERYLLIUM	1.13		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.367		0.0477	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	35.7		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	18.6		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 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
COPPER	21.4		0.0867	MDL	0.434	PQL	mg/Kg	J	Q, E, A
LEAD	14.6		0.0111	MDL	0.217	PQL	mg/Kg	J	E, A
NICKEL	31.6		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E, A
SILVER	0.0615	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.373		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	62.3		0.0238	MDL	0.108	PQL	mg/Kg	J	E
ZINC	86.8		0.607	MDL	3.25	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 *Collected:* 6/24/2011 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	0.49	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 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	0.56	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 10:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0358	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

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

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* REA *Dilution:* 1

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

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.90	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z, Q
EFH (C21-C30)	7.5		0.44	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 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 (C30-C40)	1.6		0.47	MDL	1.4	PQL	mg/Kg	U	B

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

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 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(B)FLUORANTHENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	7.1	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-092-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 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
BENZO(A)ANTHRACENE	1.2	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.84	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.76	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.91	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 *Collected:* 6/24/2011 10:25:00 *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-091-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 12:35:00 **Analysis Type:** RES **Dilution:** 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.11	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 10:18:00 **Analysis Type:** RES **Dilution:** 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	21		0.23	MDL	3.8	PQL	ug/Kg	J	Q
TOLUENE	0.08	U	0.08	MDL	3.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** RES **Dilution:** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.1	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE188

Method Blank Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17908BB221219	7/7/2011 12:19:00 PM	TIN	1.71 mg/Kg	DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0
P17908BB222208	7/4/2011 10:08:00 PM	ALUMINUM BORON CALCIUM IRON LITHIUM PHOSPHORUS STRONTIUM	7.61 mg/Kg 0.614 mg/Kg 9.04 mg/Kg 4.88 mg/Kg 1.5 mg/Kg 1.60 mg/Kg 0.0620 mg/Kg	DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-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
DUP17-SA5DN-QC-062411(RES)	TIN	3.99 mg/Kg	3.99U mg/Kg
SL-091-SA5DN-SB-4.0-5.0(RES)	TIN	3.79 mg/Kg	3.79U mg/Kg
SL-092-SA5DN-SB-4.0-5.0(REA)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	TIN	3.73 mg/Kg	3.73U mg/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	TIN	3.47 mg/Kg	3.47U mg/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	TIN	3.35 mg/Kg	3.35U mg/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	TIN	3.88 mg/Kg	3.88U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17926AB221719A	6/29/2011 5:19:00 PM	ANTIMONY VANADIUM	0.178 mg/Kg 0.0772 mg/Kg	DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0
P18226AB220627A	7/5/2011 6:27:00 AM	ANTIMONY COPPER LEAD NICKEL VANADIUM	0.0870 mg/Kg 0.0943 mg/Kg 0.0272 mg/Kg 0.0977 mg/Kg 0.0531 mg/Kg	SL-091-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
DUP17-SA5DN-QC-062411(RES)	ANTIMONY	0.280 mg/Kg	0.280U mg/Kg
SL-091-SA5DN-SB-4.0-5.0(REA4)	ANTIMONY	0.125 mg/Kg	0.125U mg/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.460 mg/Kg	0.460U mg/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	ANTIMONY	0.255 mg/Kg	0.255U mg/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-103-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.322 mg/Kg	0.322U mg/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	ANTIMONY	0.147 mg/Kg	0.147U mg/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.352 mg/Kg	0.352U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P86863AB320154A	7/8/2011 1:54:00 AM	EFH (C30-C40)	1.5 mg/Kg	SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-103-SA5DN-SB-7.0-8.0(REA2)	EFH (C30-C40)	1.6 mg/Kg	1.6U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB03B211459A	6/29/2011 2:59:00 PM	METHYLENE CHLORIDE	1.2 ug/Kg	DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: DE188_v1. eQAPP Name: CDM_SSFL_110509

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MSD (SL-092-SA5DN-SB-4.0-5.0)	PERCHLORATE	-	127	80.00-120.00	-	PERCHLORATE	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-103-SA5DN-SB-4.0-5.0MS SL-103-SA5DN-SB-4.0-5.0MSD (SL-103-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	31 60	36 -	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J(all detects) UJ(all non-detects)
SL-103-SA5DN-SB-4.0-5.0MS SL-103-SA5DN-SB-4.0-5.0MSD (SL-103-SA5DN-SB-4.0-5.0)	EFH (C15-C20) EFH (C21-C30)	136 595	174 441	49.00-123.00 49.00-123.00	- -	EFH (C15-C20) EFH (C21-C30)	J(all detects)
SL-103-SA5DN-SB-4.0-5.0MS SL-103-SA5DN-SB-4.0-5.0MSD (SL-103-SA5DN-SB-4.0-5.0)	EFH (C30-C40)	1158	2055	49.00-123.00	43 (20.00)	EFH (C30-C40)	No qual, >4x

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	169 126 149 138 144 154 162 190 141 149 162 198	193 129 169 170 162 197 225 217 158 160 179 315	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) As, Pb, V, Zn No qual, >4x
SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ANTIMONY	-	-	75.00-125.00	30 (20.00)	ANTIMONY	J(all detects) UJ(all non-detects)
SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	SELENIUM	-	129	75.00-125.00	-	SELENIUM	J(all detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_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-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	MOLYBDENUM	149	167	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	BARIUM	-432	-369	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-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	2803 306 138 302	2401 311 134 222	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Mn, Ti No qual >4x
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	CALCIUM IRON MANGANESE	-39 -163 -41	-101 1115 -125	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CALCIUM IRON MANGANESE	No qual >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_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-092-SA5DN-SB-4.0-5.0MS (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (SL-092-SA5DN-SB-4.0-5.0)	METHYLENE CHLORIDE	168	232	61.00-141.00	-	METHYLENE CHLORIDE	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5DN-SB-4.0-5.0DUP (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	FLUORIDE	2.4	2.2 mg/kg	J (all detects)
	Nitrate-NO3	27	20.00	UJ (all non-detects)
				NO3, No qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5DN-SB-4.0-5.0DUP (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	TIN	33	20.00	No qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5DN-SB-4.0-5.0DUP (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ANTIMONY	39	20.00	J(all detects)
	ARSENIC	31	20.00	
	BERYLLIUM	28	20.00	UJ(all non-detects)
	CHROMIUM	33	20.00	
	COBALT	39	20.00	
	COPPER	27	20.00	
	LEAD	29	20.00	
	MOLYBDENUM	35	20.00	Sb, Mo, Tl No qual, OK by Difference
	NICKEL	30	20.00	
	THALLIUM	34	20.00	
	VANADIUM	42	20.00	
	ZINC	22	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: DE188_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
P17926AQ221722A (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ANTIMONY	131	-	80.00-120.00	-	ANTIMONY	No qual SRM within QC Limits
P18226AQ220630A (SL-091-SA5DN-SB-4.0-5.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB03Q211526A (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	1,2-DIBROMO-3-CHLOROPROP	129	-	58.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: DE188_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
MOISTURE	13.0	15.1	15		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
FLUORIDE	3.3	3.3	0	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
ALUMINUM	29900	33300	11	50.00	
BORON	16.0	16.9	5	50.00	
CALCIUM	7840	8120	4	50.00	
IRON	33800	44000	26	50.00	
LITHIUM	29.9	31.0	4	50.00	
MAGNESIUM	7700	9210	18	50.00	
MANGANESE	472	361	27	50.00	
PHOSPHORUS	406	452	11	50.00	No Qualifiers Applied
POTASSIUM	3830	4050	6	50.00	
SODIUM	223	240	7	50.00	
STRONTIUM	38.0	44.6	16	50.00	
TIN	2.47	3.99	47	50.00	
TITANIUM	1350	1330	1	50.00	
Zirconium	8.67	8.47	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
ANTIMONY	0.460	0.280	49	50.00	
ARSENIC	10.1	7.82	25	50.00	
BARIUM	182	178	2	50.00	
BERYLLIUM	1.28	1.08	17	50.00	
CADMIUM	0.370	0.318	15	50.00	
CHROMIUM	42.5	34.3	21	50.00	
COBALT	16.7	12.6	28	50.00	
COPPER	23.7	20.3	15	50.00	No Qualifiers Applied
LEAD	13.7	12.9	6	50.00	
MOLYBDENUM	0.518	0.436	17	50.00	
NICKEL	31.7	28.2	12	50.00	
THALLIUM	0.423	0.369	14	50.00	
VANADIUM	77.2	57.4	29	50.00	
ZINC	99.0	85.2	15	50.00	
SELENIUM	0.150	0.0799	61	50.00	J(all detects)
SILVER	0.0675	0.0374	57	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
HEXAVALENT CHROMIUM	0.48	0.49	2	50.00	No Qualifiers Applied

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
ACETONE	10	15	40	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	21	16	27	50.00	
TOLUENE	3.8 U	0.12	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
PH	7.82	7.76	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-7.0-8.0	Nitrate-NO3	J	1.5	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	TIN	J	3.99	11.8	PQL	mg/Kg	J (all detects)
SL-091-SA5DN-SB-4.0-5.0	SODIUM	J	105	115	PQL	mg/Kg	J (all detects)
	TIN	J	3.79	11.5	PQL	mg/Kg	
	Zirconium	J	5.63	5.75	PQL	mg/Kg	
SL-092-SA5DN-SB-4.0-5.0	TIN	J	2.47	11.2	PQL	mg/Kg	J (all detects)
SL-092-SA5DN-SB-7.0-8.0	TIN	J	3.73	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.50	5.70	PQL	mg/Kg	
SL-103-SA5DN-SB-4.0-5.0	TIN	J	3.47	10.7	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-7.0-8.0	TIN	J	3.35	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.49	5.70	PQL	mg/Kg	
SL-122-SA5DN-SB-4.0-5.0	TIN	J	3.88	11.3	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	SELENIUM	J	0.0799	0.462	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0374	0.115	PQL	mg/Kg	
SL-091-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.125	0.239	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.151	0.478	PQL	mg/Kg	
	SILVER	J	0.0768	0.120	PQL	mg/Kg	
SL-092-SA5DN-SB-4.0-5.0	SELENIUM	J	0.150	0.446	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0675	0.112	PQL	mg/Kg	
SL-092-SA5DN-SB-7.0-8.0	SILVER	J	0.0480	0.114	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-4.0-5.0	SELENIUM	J	0.115	0.430	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0729	0.107	PQL	mg/Kg	
SL-103-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.147	0.230	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0570	0.115	PQL	mg/Kg	
SL-122-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0840	0.434	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0615	0.108	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-091-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.2	PQL	mg/Kg	J (all detects)
SL-092-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-7.0-8.0	MERCURY	J	0.0358	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-4.0-5.0	EFH (C15-C20)	J	0.90	1.3	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	TOLUENE	J	0.12	4.2	PQL	ug/Kg	J (all detects)
SL-091-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.2	PQL	ug/Kg	J (all detects)
SL-122-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.2	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	21	PQL	ug/Kg	
	CHRYSENE	J	1.2	2.0	PQL	ug/Kg	
	PYRENE	J	1.0	2.0	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-092-SA5DN-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.84	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
SL-103-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.76	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.91	1.8	PQL	ug/Kg	
SL-103-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.47	1.9	PQL	ug/Kg	
SL-122-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)

LDC #: 26407L4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE188 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-091-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-092-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-092-SA5DN-SB-7.0-8.0	13		23		33	
4	SL-122-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-103-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-103-SA5DN-SB-7.0-8.0	16		26		36	
7	DUP17-SA5DN-QC-062411	17		27		37	
8	SL-092-SA5DN-SB-4.0-5.0MS	18		28		38	
9	SL-092-SA5DN-SB-4.0-5.0MSD	19		29		39	
10	SL-092-SA5DN-SB-4.0-5.0DUP	20		30		40	

Notes: _____

LDC #: 26407L4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: OR
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1, 3-7

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	6													
Zr	5.2	2.6	2.5													

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.: DE188
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6328447BKG Matrix Spike Lab Sample ID: 6328448MS Matrix Spike Duplicate Lab Sample ID: 6328449MSD
% Solids for Sample: 87.0
Batch Id(s): P17908B, P17926A, P17911A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		29850.2232		36166.9191		35315.3044		225.3775	227.6090	MG/KG	2803		2401		2			20	P
Antimony	121	0.4602		1.5387		2.0741		1.3391	1.3391	MG/KG	81		121		30	*	75 - 125	20	MS
Arsenic	75	10.1149		13.8779		14.4136		2.2319	2.2319	MG/KG	169		193		4			20	MS
Barium	137	182.4573		134.2484		141.2789		11.1595	11.1595	MG/KG	-432		-369		5			20	MS
Beryllium	9	1.2758		2.3971		2.4305		0.8928	0.8928	MG/KG	126	N	129	N	1		75 - 125	20	MS
Boron		16.0417		234.9899		236.3856		225.3775	227.6090	MG/KG	97		97		1		84 - 115	20	P
Cadmium	111	0.3698		2.0350		2.2609		1.1159	1.1159	MG/KG	149	N	169	N	11		75 - 125	20	MS
Calcium		7844.8812		7670.6063		7386.2331		450.7550	455.2179	MG/KG	-39		-101		4			20	P
Chromium	52	42.5399		57.9846		61.5556		11.1595	11.1595	MG/KG	138	N	170	N	6		75 - 125	20	MS
Cobalt	59	16.6946		96.7749		107.1755		55.7973	55.7973	MG/KG	144	N	162	N	10		75 - 125	20	MS
Copper	63	23.6804		40.8883		45.6645		11.1595	11.1595	MG/KG	154	N	197	N	11		75 - 125	20	MS
Iron		33806.6901		33621.9123		35075.4979		112.6888	113.8045	MG/KG	-164		1115		4			20	P
Lead	208	13.6570		19.0715		21.1829		3.3478	3.3478	MG/KG	162		225		10			20	MS
Lithium		29.8717		146.5416		147.9720		112.6888	113.8045	MG/KG	104		104		1		82 - 114	20	P
Magnesium		7703.9371		8394.5605		8411.2166		225.3775	227.6090	MG/KG	306		311		0			20	P
Manganese		472.0957		448.7976		400.7329		56.3444	56.9022	MG/KG	-41		-125		11			20	P
Mercury		0.0080	U	0.1822		0.1855		0.1787	0.1863	MG/KG	102		100		2		65 - 135	20	CV
Molybdenum	98	0.5185		17.1856		19.1162		11.1595	11.1595	MG/KG	149	N	167	N	11		75 - 125	20	MS
Nickel	60	31.6929		52.8736		55.8866		11.1595	11.1595	MG/KG	190	N	217	N	6		75 - 125	20	MS
Phosphorus		405.6221		499.6011		515.6709		112.6888	113.8045	MG/KG	83		97		3		75 - 125	20	P
Potassium		3831.5657		5384.0309		5360.1957		1126.8875	1138.0448	MG/KG	138	N	134	N	0		75 - 125	20	P
Selenium	78	0.1501	B	2.7251		3.0198		2.2319	2.2319	MG/KG	115		129	N	10		75 - 125	20	MS
Silver	107	0.0675	B	15.8219		17.6900		11.1595	11.1595	MG/KG	141	N	158	N	11		75 - 125	20	MS
Sodium		222.5243		1363.3243		1380.1787		1126.8875	1138.0448	MG/KG	101		102		1		75 - 125	20	P
Strontium		37.9913		151.7332		154.7297		112.6888	113.8045	MG/KG	101		103		2		75 - 115	20	P
Thallium	203	0.4229		1.0872		1.1360		0.4464	0.4464	MG/KG	149	N	160	N	4		75 - 125	20	MS
Tin		2.4718	B	429.4568		437.2459		450.7550	455.2179	MG/KG	95		96		2		80 - 110	20	P
Titanium		1350.1786		1690.4372		1602.4559		112.6888	113.8045	MG/KG	302		222		5			20	P
Vanadium	51	77.1566		95.2349		97.0874		11.1595	11.1595	MG/KG	162		179		2			20	MS
Zinc	66	99.0291		121.1026		134.1368		11.1595	11.1595	MG/KG	198		315		10			20	MS
Zirconium		8.6687		120.4834		124.1800		112.6888	113.8045	MG/KG	99		101		3		75 - 125	20	P

DE188

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE188
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6328447BKG
% Solids for Duplicate: 86.5
Batch ID(s): P17908B, P17926A, P17911A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6328450DUP
% Solids for Sample: 87.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			29850.2232		29703.9445		0		P
Antimony	121	0.2	0.4602		0.3088		39		MS
Arsenic	75		10.1149		7.3873		31	*	MS
Barium	137		182.4573		148.9169		20		MS
Beryllium	9		1.2758		0.9611		28	*	MS
Boron		5.6	16.0417		15.9980		0		P
Cadmium	111	0.1	0.3698		0.3066		19		MS
Calcium			7844.8812		6925.3327		12		P
Chromium	52		42.5399		30.3714		33	*	MS
Cobalt	59		16.6946		11.2599		39	*	MS
Copper	63		23.6804		18.1278		27	*	MS
Iron			33806.6901		32947.8227		3		P
Lead	208		13.6570		10.2166		29	*	MS
Lithium			29.8717		29.2573		2		P
Magnesium			7703.9371		7652.6614		1		P
Manganese			472.0957		409.8375		14		P
Mercury			0.0080	U	0.0081	U			CV
Molybdenum	98	0.1	0.5185		0.3638		35	*	MS
Nickel	60		31.6929		23.4306		30	*	MS
Phosphorus			405.6221		397.7586		2		P
Potassium			3831.5657		3775.9483		1		P
Selenium	78		0.1501	B	0.1246	B	19		MS
Silver	107		0.0675	B	0.0658	B	3		MS
Sodium		111.6	222.5243		220.4819		1		P
Strontium			37.9913		38.0747		0		P
Thallium	203	0.1	0.4229		0.2993		34	*	MS
Tin			2.4718	B	3.4339	B	33		P
Titanium			1350.1786		1364.6419		1		P
Vanadium	51		77.1566		50.4642		42	*	MS
Zinc	66		99.0291		79.7745		22	*	MS
Zirconium		5.6	8.6687		9.2197		6		P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE188
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6328447BKG Serial Dilution Lab Sample ID: 6328447L
Batch ID(s): P17908B, P17926A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		267487.8500		273387.3500		2		P
Antimony	121	2.0620		2.5485	B	24		MS
Arsenic	75	45.3200		38.3250		15	E	MS
Barium	137	817.5000		631.0000		23	E	MS
Beryllium	9	5.7160		5.0900		11		MS
Boron		143.7500		161.9000	B	13		P
Cadmium	111	1.6570		1.8305	B	10		MS
Calcium		70297.9800		72441.9500		3		P
Chromium	52	190.6000		183.5500		4		MS
Cobalt	59	74.8000		61.0000		18	E	MS
Copper	63	106.1000		90.9500		14	E	MS
Iron		60588.3500		68902.9500		14	E	P
Lead	208	61.1900		49.6850		19	E	MS
Lithium		267.6800		295.4500		10		P
Magnesium		69034.9800		69931.2000		1		P
Manganese		4230.4500		4285.6500		1		P
Molybdenum	98	2.3230		2.3065	B	1		MS
Nickel	60	142.0000		118.2000		17	E	MS
Phosphorus		3634.7800		3607.1500		1		P
Potassium		34334.6600		33329.8500		3		P
Selenium	78	0.6725	B	1.4500	U	100		MS
Silver	107	0.3025	B	0.3550	U	100		MS
Sodium		1994.0400		2090.7500	B	5		P
Strontium		340.4400		341.1500		0		P
Thallium	203	1.8950		1.7710	B	7		MS
Tin		22.1500	B	18.2500	B	18		P
Titanium		12098.9500		11650.4500		4		P
Vanadium	51	345.7000		338.0000		2		MS
Zinc	66	443.7000		365.2000		18	E	MS
Zirconium		77.6800		93.9500	B	21		P

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

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

DE188 3292

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

SAMPLE DELIVERY GROUP

DE189

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
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3050B	6010B	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3050B	6020	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3060A	7199	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3550B	8082	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3550B	8270C	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3550B	8270C SIM	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	5035	8260B	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	5035	8260B SIM	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	8330	8330A	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	METHOD	300.0	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	METHOD	314.0	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	METHOD	7471A	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3050B	6010B	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3050B	6020	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3060A	7199	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3550B	8082	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3550B	8270C	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3550B	8270C SIM	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	5035	8260B	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	5035	8260B SIM	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	8330	8330A	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	METHOD	300.0	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	METHOD	314.0	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	METHOD	7471A	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3050B	6010B	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3060A	7199	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3550B	8082	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3550B	8270C	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3550B	8270C SIM	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	8330	8330A	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	METHOD	300.0	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	METHOD	314.0	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3060A	7199	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3550B	8082	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3550B	8270C	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3550B	8270C SIM	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	5035	8260B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	5035	8260B SIM	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	8330	8330A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D220414	DUP	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D220816	DUP	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100A	DUP	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100B	DUP	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100C	DUP	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100D	DUP	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D270723A	DUP	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D271736B	DUP	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R220419	MS	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R220817	MS	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221103A	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221103B	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221103C	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221112D	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R270738A	MS	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R271800B	MS	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3060A	7199	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3550B	8082	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3550B	8270C	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3550B	8270C SIM	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	8330	8330A	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	METHOD	7471A	III
27-Jun-2011	TB-062711	6329380	TB	5030B	8260B	III
27-Jun-2011	TB-062711	6329380	TB	5030B	8260B SIM	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3050B	6010B	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3050B	6020	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3060A	7199	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3550B	8270C	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3550B	8270C SIM	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	5035	8260B	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	5035	8260B SIM	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	METHOD	300.0	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	METHOD	314.0	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory:** LL

EDD Filename: DE189_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 ***Collected:*** 6/27/2011 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	6.5		0.95	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-077-SA5DN-SB-9.0-10.0 ***Collected:*** 6/27/2011 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	5.3		0.96	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-078-SA5DN-SB-4.0-5.0 ***Collected:*** 6/27/2011 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
FLUORIDE	10.9		0.93	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-078-SA5DN-SB-9.0-10.0 ***Collected:*** 6/27/2011 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
FLUORIDE	3.7		0.92	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-085-SA5DN-SB-2.5-3.5 ***Collected:*** 6/27/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.93	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-123-SA5DN-SB-2.5-3.5 ***Collected:*** 6/27/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.86	MDL	1.1	PQL	mg/Kg	J	E

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 ***Collected:*** 6/27/2011 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
MANGANESE	218		0.0411	MDL	0.571	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	238		0.400	MDL	11.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 Laboratory: LL

EDD Filename: DE189_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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
POTASSIUM	4130		12.9	MDL	57.1	PQL	mg/Kg	J	Q
TIN	2.97	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 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
MANGANESE	198		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	330		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3240		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	2.73	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.53	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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
MANGANESE	402		0.0402	MDL	0.558	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	334		0.391	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3480		12.6	MDL	55.8	PQL	mg/Kg	J	Q
TIN	2.76	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.57	J	0.514	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 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
MANGANESE	173		0.0406	MDL	0.564	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	332		0.395	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	2770		12.7	MDL	56.4	PQL	mg/Kg	J	Q
TIN	2.75	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.13	J	0.519	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 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
MANGANESE	281		0.0420	MDL	0.583	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	202		0.408	MDL	11.7	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 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
POTASSIUM	2720		13.2	MDL	58.3	PQL	mg/Kg	J	Q
TIN	2.83	J	0.373	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	3.91	J	0.536	MDL	5.83	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 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
BORON	5.11	J	0.370	MDL	5.14	PQL	mg/Kg	J	Z
MANGANESE	270		0.0370	MDL	0.514	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	437		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	1970		11.6	MDL	51.4	PQL	mg/Kg	J	Q
TIN	2.84	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.28	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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	0.0759	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z, Q, L

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.526		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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	0.363		0.0845	MDL	0.228	PQL	mg/Kg	J	Q, E
ARSENIC	8.51		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
BERYLLIUM	1.18		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.303		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	42.7		0.137	MDL	0.457	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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
COBALT	11.6		0.0228	MDL	0.114	PQL	mg/Kg	J	Q
COPPER	18.8		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	12.9		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	27.2		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.0611	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.493		0.0343	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 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	0.520		0.0586	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 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	0.281		0.0868	MDL	0.235	PQL	mg/Kg	J	Q, E
ARSENIC	12.4		0.0938	MDL	0.469	PQL	mg/Kg	J	Q
BERYLLIUM	1.07		0.0188	MDL	0.117	PQL	mg/Kg	J	Q
CADMIUM	0.407		0.0516	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	35.1		0.141	MDL	0.469	PQL	mg/Kg	J	Q
COBALT	15.9		0.0235	MDL	0.117	PQL	mg/Kg	J	Q
COPPER	20.2		0.0938	MDL	0.469	PQL	mg/Kg	J	Q
LEAD	12.6		0.0120	MDL	0.235	PQL	mg/Kg	J	Q, E
NICKEL	28.8		0.117	MDL	0.469	PQL	mg/Kg	J	Q
SILVER	0.0566	J	0.0167	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.353		0.0352	MDL	0.117	PQL	mg/Kg	J	Q, E

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0838	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z, Q, L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.477		0.0569	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.326		0.0843	MDL	0.228	PQL	mg/Kg	J	Q, E
ARSENIC	12.1		0.0911	MDL	0.455	PQL	mg/Kg	J	Q
BERYLLIUM	1.26		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.374		0.0501	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	44.7		0.137	MDL	0.455	PQL	mg/Kg	J	Q
COBALT	15.9		0.0228	MDL	0.114	PQL	mg/Kg	J	Q
COPPER	23.0		0.0911	MDL	0.455	PQL	mg/Kg	J	Q
LEAD	16.4		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	31.1		0.114	MDL	0.455	PQL	mg/Kg	J	Q
SILVER	0.0428	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.468		0.0342	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: **SL-078-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 9:55:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.322		0.0553	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-078-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.69		0.0885	MDL	0.443	PQL	mg/Kg	J	Q
BERYLLIUM	0.922		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.340		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	28.5		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	8.87		0.0221	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	15.6		0.0885	MDL	0.443	PQL	mg/Kg	J	Q
LEAD	9.56		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	17.7		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-078-SA5DN-SB-9.0-10.0 ***Collected:*** 6/27/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.349		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-085-SA5DN-SB-2.5-3.5 ***Collected:*** 6/27/2011 9:10:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.681		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA5DN-SB-2.5-3.5 ***Collected:*** 6/27/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.318		0.0846	MDL	0.229	PQL	mg/Kg	J	Q, E
ARSENIC	8.91		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
BERYLLIUM	0.982		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.137		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	30.6		0.137	MDL	0.457	PQL	mg/Kg	J	Q
COBALT	8.06		0.0229	MDL	0.114	PQL	mg/Kg	J	Q
COPPER	15.0		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	9.06		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, E
NICKEL	19.3		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.0782	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.324		0.0343	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-123-SA5DN-SB-2.5-3.5 ***Collected:*** 6/27/2011 2:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0646	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z, Q, L

Sample ID: SL-123-SA5DN-SB-2.5-3.5 ***Collected:*** 6/27/2011 2:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.439		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.199	J	0.0768	MDL	0.208	PQL	mg/Kg	J	Z, Q, E
ARSENIC	9.10		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
BERYLLIUM	0.736		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.143		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	29.4		0.125	MDL	0.415	PQL	mg/Kg	J	Q
COBALT	9.01		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	13.9		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	6.80		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	21.6		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0183	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.387		0.0312	MDL	0.104	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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	0.0126	J	0.0082	MDL	0.117	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 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
MERCURY	0.0119	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 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
MERCURY	0.0251	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0133	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory:** LL

EDD Filename: DE189_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *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	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L
2,4-DINITROTOLUENE	46	J	40	MDL	200	PQL	ug/Kg	J	Z
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	590	PQL	ug/Kg	UJ	L

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 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
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L
2,4-DINITROTOLUENE	48	J	40	MDL	200	PQL	ug/Kg	J	Z
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	600	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *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	380	U	380	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *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	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *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	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-077-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.9	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-077-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 10:40:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.96	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	0.60	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-078-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 9:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.0	J	6.9	MDL	21	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA5DN-SB-2.5-3.5** ***Collected:*** **6/27/2011 9:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-123-SA5DN-SB-2.5-3.5** ***Collected:*** **6/27/2011 2:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.88**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA5DN-SB-2.5-3.5** ***Collected:*** **6/27/2011 9:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.88**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
METHYLENE CHLORIDE	9.5		0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE189

Method Blank Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18008CB220354	7/11/2011 3:54:00 AM	CALCIUM MANGANESE PHOSPHORUS TIN	4.04 mg/Kg 0.0970 mg/Kg 1.15 mg/Kg 1.76 mg/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5
P18008CB222210	7/11/2011 10:10:00 PM	IRON	10.7 mg/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-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
SL-077-SA5DN-SB-4.0-5.0(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18026BB221048A	6/30/2011 10:48:00 AM	COPPER LEAD VANADIUM	0.128 mg/Kg 0.0185 mg/Kg 0.0372 mg/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB03B211459A	6/29/2011 2:59:00 PM	METHYLENE CHLORIDE	1.2 ug/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-4.0-5.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-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
SL-085-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	9.5 ug/Kg	9.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_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-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	ARSENIC	168	247	75.00-125.00	-	ARSENIC	
	BERYLLIUM	-	145	75.00-125.00	-	BERYLLIUM	
	CADMIUM	157	170	75.00-125.00	-	CADMIUM	J (all detects)
	CHROMIUM	-	187	75.00-125.00	-	CHROMIUM	
	COBALT	145	160	75.00-125.00	-	COBALT	
	COPPER	154	207	75.00-125.00	-	COPPER	
	NICKEL	185	223	75.00-125.00	-	NICKEL	V, Zn,
	SILVER	136	157	75.00-125.00	-	SILVER	No Qual, >4x
	VANADIUM	141	189	75.00-125.00	-	VANADIUM	
	ZINC	208	333	75.00-125.00	-	ZINC	
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	ANTIMONY	67	-	75.00-125.00	26 (20.00)	ANTIMONY	
	LEAD	-	236	75.00-125.00	22 (20.00)	LEAD	
	THALLIUM	-	179	75.00-125.00	21 (20.00)	THALLIUM	J(all detects) UJ(all non-detects)
SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	SELENIUM	-	126	75.00-125.00	-	SELENIUM	J(all detects)
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MOLYBDENUM	140	162	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	BARIUM	-148	-143	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-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	ALUMINUM	2168	1809	75.00-125.00	-	ALUMINUM	
	CALCIUM	177	143	75.00-125.00	-	CALCIUM	J(all detects)
	IRON	6514	4724	75.00-125.00	-	IRON	
	MAGNESIUM	354	269	75.00-125.00	-	MAGNESIUM	
	PHOSPHORUS	204	148	75.00-125.00	-	PHOSPHORUS	Al, Ca, Fe, Mg,
	POTASSIUM	153	144	75.00-125.00	-	POTASSIUM	No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_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-077-SA5DN-SB-4.0-5.0MS **SL-077-SA5DN-SB-4.0-5.0MSD** (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MANGANESE	489	250	75.00-125.00	33 (20.00)	MANGANESE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-077-SA5DN-SB-4.0-5.0DUP (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	FLUORIDE	44	20.00	J (all detects) UJ (all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-077-SA5DN-SB-4.0-5.0DUP (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MANGANESE	22	20.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-077-SA5DN-SB-4.0-5.0DUP (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MERCURY	113	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY13Y211332A (TB-062711)	BROMOBENZENE	-	121	80.00-120.00	-	BROMOBENZENE	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P18026BQ221051A (SL-077-SA5DN -SB-4.0-5.0 SL -077-SA5DN -SB-9.0-10.0 SL -078-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-9.0-10.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	ANTIMONY	125	-	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
P1LBLCSQ260013 (SL-077-SA5DN -SB-4.0-5.0 SL -077-SA5DN -SB-9.0-10.0 SL -078-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-9.0-10.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	26 42	- -	37.00-120.00 53.00-110.00	- -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19608BQ221000 (SL-077-SA5DN -SB-4.0-5.0 SL -077-SA5DN -SB-9.0-10.0 SL -078-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-9.0-10.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	TITANIUM	157	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**

Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSB03Q211526A (SL-077-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-4.0-5.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	1,2-DIBROMO-3-CHLOROPROP	129	-	58.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	TIN	J	2.97	11.4	PQL	mg/Kg	J (all detects)
SL-077-SA5DN-SB-9.0-10.0	TIN	J	2.73	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.53	5.75	PQL	mg/Kg	
SL-078-SA5DN-SB-4.0-5.0	TIN	J	2.76	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.57	5.58	PQL	mg/Kg	
SL-078-SA5DN-SB-9.0-10.0	TIN	J	2.75	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.13	5.64	PQL	mg/Kg	
SL-085-SA5DN-SB-2.5-3.5	TIN	J	2.83	11.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.91	5.83	PQL	mg/Kg	
SL-123-SA5DN-SB-2.5-3.5	BORON	J	5.11	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	2.84	10.3	PQL	mg/Kg	
	Zirconium	J	3.28	5.14	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0759	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0611	0.114	PQL	mg/Kg	
SL-077-SA5DN-SB-9.0-10.0	SILVER	J	0.0566	0.117	PQL	mg/Kg	J (all detects)
SL-078-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0838	0.455	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0428	0.114	PQL	mg/Kg	
SL-078-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.163	0.221	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0402	0.111	PQL	mg/Kg	
SL-085-SA5DN-SB-2.5-3.5	SILVER	J	0.0782	0.114	PQL	mg/Kg	J (all detects)
SL-123-SA5DN-SB-2.5-3.5	ANTIMONY	J	0.199	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0646	0.415	PQL	mg/Kg	
	SILVER	J	0.0183	0.104	PQL	mg/Kg	

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	MERCURY	J	0.0126	0.117	PQL	mg/Kg	J (all detects)
SL-078-SA5DN-SB-4.0-5.0	MERCURY	J	0.0119	0.110	PQL	mg/Kg	J (all detects)
SL-078-SA5DN-SB-9.0-10.0	MERCURY	J	0.0251	0.111	PQL	mg/Kg	J (all detects)
SL-085-SA5DN-SB-2.5-3.5	MERCURY	J	0.0133	0.112	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.1	PQL	ug/Kg	J (all detects)

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5DN-SB-2.5-3.5	TOLUENE	J	0.14	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	2,4-DINITROTOLUENE	J	46	200	PQL	ug/Kg	J (all detects)
SL-077-SA5DN-SB-9.0-10.0	2,4-DINITROTOLUENE	J	48	200	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	400	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	21	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	7.9	21	PQL	ug/Kg	
SL-077-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.96	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.60	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	2.0	PQL	ug/Kg	
	PYRENE	J	1.3	2.0	PQL	ug/Kg	
SL-078-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	21	PQL	ug/Kg	J (all detects)
SL-078-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.0	21	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.78	1.9	PQL	ug/Kg	
SL-085-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	21	PQL	ug/Kg	
SL-123-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.6	19	PQL	ug/Kg	J (all detects)

LDC #: 26277S4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE189 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: C

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

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

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

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

Validated Samples:

1	SL-077-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-077-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-078-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-078-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-085-SA5DN-SB-2.5-3.5	15		25		35	
6	SL-123-SA5DN-SB-2.5-3.5	16		26		36	
7	#1 MS (except Ti)	17		27		37	
8	↓ MSD	18		28		38	
9	pmp	19		29		39	
10		20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE189
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6329374BKG Matrix Spike Lab Sample ID: 6329374MS Matrix Spike Duplicate Lab Sample ID: 6329374MSD
% Solids for Sample: 84.2
Batch Id(s): P18008C, P18026B, P18011B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		38385.4045		43534.4489		42597.2603		237.5297	232.8722	MG/KG	2168		1809		2			20	P
Antimony	121	0.3629		1.2928		1.6860		1.3837	1.3837	MG/KG	67	N	96		26	*	75 - 125	20	MS
Arsenic	75	8.5077		12.3884		14.2010		2.3061	2.3061	MG/KG	168	N	247	N	14		75 - 125	20	MS
Barium	137	177.2565		160.1596		160.7361		11.5306	11.5306	MG/KG	-148		-143		0			20	MS
Beryllium	9	1.1824		2.2736		2.5229		0.9224	0.9224	MG/KG	118		145	N	10		75 - 125	20	MS
Boron		13.7642		253.5333		247.6107		237.5297	232.8722	MG/KG	101		100		2		84 - 115	20	P
Cadmium	111	0.3026		2.1179		2.2595		1.1531	1.1531	MG/KG	157	N	170	N	6		75 - 125	20	MS
Calcium		5933.3135		6776.0428		6601.0200		475.0594	465.7445	MG/KG	177		143		3			20	P
Chromium	52	42.6868		55.9463		64.2022		11.5306	11.5306	MG/KG	115		187	N	14		75 - 125	20	MS
Cobalt	59	11.5613		95.2194		103.7290		57.6528	57.6528	MG/KG	145	N	160	N	9		75 - 125	20	MS
Copper	63	18.7671		36.5519		42.6400		11.5306	11.5306	MG/KG	154	N	207	N	15		75 - 125	20	MS
Iron		29778.3071		37515.1603		35278.8470		118.7648	116.4361	MG/KG	6514		4724		6			20	P
Lead	208	12.9180		16.9269		21.0963		3.4592	3.4592	MG/KG	116		236	N	22	*	75 - 125	20	MS
Lithium		32.3726		149.2221		148.4409		118.7648	116.4361	MG/KG	98		100		1		82 - 114	20	P
Magnesium		7920.7325		8760.8931		8546.8388		237.5297	232.8722	MG/KG	354		269		2			20	P
Manganese		218.1550		508.7482		363.4973		59.3824	58.2181	MG/KG	489	N	250	N	33	*	75 - 125	20	P
Mercury		0.0126	B	0.1902		0.2091		0.1933	0.1936	MG/KG	92		101		9		65 - 135	20	CV
Molybdenum	98	0.5264		16.6801		19.1707		11.5306	11.5306	MG/KG	140	N	162	N	14		75 - 125	20	MS
Nickel	60	27.1789		48.5437		52.8792		11.5306	11.5306	MG/KG	185	N	223	N	9		75 - 125	20	MS
Phosphorus		237.6804		479.6461		409.9972		118.7648	116.4361	MG/KG	204	N	148	N	16		75 - 125	20	P
Potassium		4130.0281		5951.2055		5810.2767		1187.6485	1164.3612	MG/KG	153	N	144	N	2		75 - 125	20	P
Selenium	78	0.0759	B	2.6036		2.9726		2.3061	2.3061	MG/KG	110		126	N	13		75 - 125	20	MS
Silver	107	0.0611	B	15.7554		18.1606		11.5306	11.5306	MG/KG	136	N	157	N	14		75 - 125	20	MS
Sodium		399.3571		1549.3159		1547.6585		1187.6485	1164.3612	MG/KG	97		99		0		75 - 125	20	P
Strontium		48.0644		163.3800		160.8321		118.7648	116.4361	MG/KG	97		97		2		75 - 115	20	P
Thallium	203	0.4933		1.0654		1.3189		0.4612	0.4612	MG/KG	124		179	N	21	*	75 - 125	20	MS
Tin		2.9691	B	412.1211		411.3851		475.0594	465.7445	MG/KG	86		88		0		80 - 110	20	P
Vanadium	51	77.7225		94.0202		99.5549		11.5306	11.5306	MG/KG	141		189		6			20	MS
Zinc	66	92.7279		116.6663		131.1717		11.5306	11.5306	MG/KG	208		333		12			20	MS
Zirconium		6.0993		120.6259		118.9884		118.7648	116.4361	MG/KG	96		97		1		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 7
LABORATORY CONTROL SAMPLE
SDG No.: DE189
Matrix: SOIL

Analyte	Mass	Lab Sample ID	Units	True	Found	C	Limit		%R	M	In Spec
Aluminum		P18008CQ	MG/KG	14146.0	15269.6		8676.7	15560.3	108	P	Yes
Antimony	121	P18026BQ	MG/KG	99.2	124.5		26.3	179.7	126	MS	Yes
Arsenic	75	P18026BQ	MG/KG	109.0	113.2		90.5	123.5	104	MS	Yes
Barium	137	P18026BQ	MG/KG	345.0	353.0		280.4	381.6	102	MS	Yes
Beryllium	9	P18026BQ	MG/KG	75.2	78.6		64.4	83.8	105	MS	Yes
Boron		P18008CQ	MG/KG	167.0	169.0		130.6	183.9	101	P	Yes
Cadmium	111	P18026BQ	MG/KG	244.0	265.8		200.0	288.0	109	MS	Yes
Calcium		P18008CQ	MG/KG	9858.0	9975.4		8634.5	10843.6	101	P	Yes
Chromium	52	P18026BQ	MG/KG	80.6	90.2		64.1	97.0	112	MS	Yes
Cobalt	59	P18026BQ	MG/KG	85.8	93.0		70.3	101.0	108	MS	Yes
Copper	63	P18026BQ	MG/KG	67.4	68.2		56.2	74.4	101	MS	Yes
Iron		P18008CQ	MG/KG	23615.0	25699.2		14448.8	25976.6	109	P	Yes
Lead	208	P18026BQ	MG/KG	111.0	118.5		91.9	122.1	107	MS	Yes
Lithium		P18008CQ	UG/L	1000.0	996.4		800.0	1200.0	100	P	Yes
Magnesium		P18008CQ	MG/KG	4434.0	4514.4		3649.7	4877.1	102	P	Yes
Manganese		P18008CQ	MG/KG	450.0	468.2		400.6	503.4	104	P	Yes
Mercury		P18011BQ	MG/KG	2.8	2.5		2.5	3.5	89	CV	Yes
Molybdenum	98	P18026BQ	MG/KG	47.2	54.3		36.8	57.5	115	MS	Yes
Nickel	60	P18026BQ	MG/KG	103.5	110.3		83.5	113.9	107	MS	Yes
Phosphorus		P18008CQ	UG/L	1000.0	1072.5		800.0	1200.0	107	P	Yes
Potassium		P18008CQ	MG/KG	5021.0	5016.2		3926.8	5523.2	100	P	Yes
Selenium	78	P18026BQ	MG/KG	183.0	203.5		151.6	202.4	111	MS	No
Silver	107	P18026BQ	MG/KG	48.0	50.3		39.0	53.4	105	MS	Yes
Sodium		P18008CQ	MG/KG	1099.0	1076.0		957.0	1209.1	98	P	Yes
Strontium		P18008CQ	MG/KG	105.6	106.5		90.4	116.2	101	P	Yes
Thallium	203	P18026BQ	MG/KG	286.0	296.3		237.4	314.6	104	MS	Yes
Tin		P18008CQ	MG/KG	180.0	183.3		161.3	204.7	102	P	Yes
Titanium		P19608BQ	MG/KG	359.0	563.7		144.0	667.0	157	P	Yes
Vanadium	51	P18026BQ	MG/KG	130.0	128.7		108.8	151.2	99	MS	Yes
Zinc	66	P18026BQ	MG/KG	390.0	407.9		317.4	438.6	105	MS	Yes
Zirconium		P18008CQ	UG/L	1000.0	1038.9		800.0	1200.0	104	P	Yes

DE189 2562

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry CV = Cold Vapor AF = Cold Vapor Atomic Fluorescence	U= Below MDL B= Below LOQ

SAMPLE DELIVERY GROUP

DE190

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-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3050B	6020	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3060A	7199	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3550B	8082	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3550B	8270C	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3550B	8270C SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	5035	8260B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	5035	8260B SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	METHOD	300.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	METHOD	314.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	METHOD	7471A	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3050B	6020	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3060A	7199	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3550B	8082	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3550B	8270C	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3550B	8270C SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	5035	8260B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	5035	8260B SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	METHOD	300.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	METHOD	314.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	METHOD	7471A	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331378	MS	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	3050B	6020	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	METHOD	300.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	METHOD	314.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	METHOD	7471A	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3050B	6010B	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3050B	6020	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3060A	7199	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3550B	8082	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3550B	8270C	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3550B	8270C SIM	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	5035	8260B	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	5035	8260B SIM	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	METHOD	300.0	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	METHOD	314.0	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	METHOD	7471A	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3050B	6010B	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3050B	6020	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3060A	7199	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3550B	8082	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3550B	8270C	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3550B	8270C SIM	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	5035	8260B	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	5035	8260B SIM	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	METHOD	300.0	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	METHOD	314.0	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	METHOD	7471A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3050B	6020	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3060A	7199	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3546	1625C	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8015B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8015M	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8082	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8270C	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8270C SIM	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	5035	8015M	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	5035	8260B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	5035	8260B SIM	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	8330	8330A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	300.0	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	314.0	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	7471A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	8015B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	8015M	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	8315A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	9012B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0MS	P331381R320218A	MS	3550B	8015B	III
28-Jun-2011	TB-062811	6331385	TB	5030B	8015M	III
28-Jun-2011	TB-062811	6331385	TB	5030B	8260B	III
28-Jun-2011	TB-062811	6331385	TB	5030B	8260B SIM	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3050B	6010B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3050B	6020	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3546	1625C	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8015B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8015M	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8082	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8270C	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8270C SIM	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	5035	8015M	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	5035	8260B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	5035	8260B SIM	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	8330	8330A	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	300.0	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	314.0	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	7471A	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	8015B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	8015M	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	8315A	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	9012B	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3050B	6010B	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3050B	6020	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3060A	7199	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3550B	8082	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3550B	8270C	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3550B	8270C SIM	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	5035	8260B	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	5035	8260B SIM	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	METHOD	314.0	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 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
FLUORIDE	3.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q, FD

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 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
FLUORIDE	5.9		0.86	MDL	1.1	PQL	mg/Kg	J	Q, FD

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 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	3.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 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
BORON	4.06	J	0.376	MDL	5.23	PQL	mg/Kg	J	Z
PHOSPHORUS	365		0.366	MDL	10.5	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 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
POTASSIUM	1840		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.47	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.06	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 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
BORON	4.30	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	363		0.373	MDL	10.7	PQL	mg/Kg	J	Q, E
POTASSIUM	2320		12.0	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.51	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.95	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 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
BORON	4.95	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
PHOSPHORUS	215		0.387	MDL	11.1	PQL	mg/Kg	J	Q, E
POTASSIUM	1750		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.62	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.49	J	0.508	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.67	J	0.402	MDL	5.58	PQL	mg/Kg	J	Z
PHOSPHORUS	296		0.391	MDL	11.2	PQL	mg/Kg	J	Q, E
POTASSIUM	1520		12.6	MDL	55.8	PQL	mg/Kg	J	Q
TIN	2.65	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.73	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	355		0.384	MDL	11.0	PQL	mg/Kg	J	Q, E
POTASSIUM	2790		12.4	MDL	54.9	PQL	mg/Kg	J	Q
TIN	2.74	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.30	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	452		0.383	MDL	11.0	PQL	mg/Kg	J	Q, E
POTASSIUM	3220		12.4	MDL	54.8	PQL	mg/Kg	J	Q
TIN	3.53	J	0.350	MDL	11.0	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0773	MDL	0.209	PQL	mg/Kg	UJ	B, Q
CHROMIUM	41.6		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	10.4		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	16.0		0.0836	MDL	0.418	PQL	mg/Kg	J	A
LEAD	8.55		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, E, E, A
NICKEL	33.8		0.105	MDL	0.418	PQL	mg/Kg	J	Q, A
SILVER	0.183		0.0148	MDL	0.105	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 **Collected:** 6/28/2011 9:55:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	83.9		0.0230	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-116-SA5DN-SB-2.0-3.0 **Collected:** 6/28/2011 9:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0624	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA5DN-SB-2.0-3.0 **Collected:** 6/28/2011 9:50:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.9		0.114	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-116-SA5DN-SB-2.0-3.0 **Collected:** 6/28/2011 9:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0797	MDL	0.215	PQL	mg/Kg	UJ	B, Q
CHROMIUM	26.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q, A
COBALT	7.09		0.0215	MDL	0.108	PQL	mg/Kg	J	A
COPPER	12.2		0.0861	MDL	0.431	PQL	mg/Kg	J	A
LEAD	8.01		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, E, A
NICKEL	20.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q, A
SILVER	0.0883	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, FD
VANADIUM	51.9		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-131-SA5DN-SB-3.5-4.5 **Collected:** 6/28/2011 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	0.0962	J	0.0623	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5DN-SB-3.5-4.5 **Collected:** 6/28/2011 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	89.1		0.114	MDL	0.429	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-131-SA5DN-SB-3.5-4.5 ***Collected:*** 6/28/2011 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	0.0795	U	0.0795	MDL	0.215	PQL	mg/Kg	UJ	Q
CADMIUM	0.0645	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	26.2		0.129	MDL	0.429	PQL	mg/Kg	J	Q, A
COBALT	6.73		0.0215	MDL	0.107	PQL	mg/Kg	J	A
COPPER	8.07		0.0859	MDL	0.429	PQL	mg/Kg	J	A
LEAD	5.85		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, E, A
NICKEL	15.2		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0602	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0846	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	B, Q
CHROMIUM	35.9		0.134	MDL	0.446	PQL	mg/Kg	J	Q, A
COBALT	13.4		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	14.8		0.0893	MDL	0.446	PQL	mg/Kg	J	A
LEAD	10.1		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, E, E, A
NICKEL	28.7		0.112	MDL	0.446	PQL	mg/Kg	J	Q, A
VANADIUM	78.4		0.0246	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-141-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:48:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-141-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:48:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.116	MDL	0.439	PQL	mg/Kg	J	A

Sample ID: SL-141-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:48:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	UJ	Q
CHROMIUM	36.1		0.132	MDL	0.439	PQL	mg/Kg	J	Q, A
COBALT	10.7		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	17.5		0.0878	MDL	0.439	PQL	mg/Kg	J	A
LEAD	7.45		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E, E, A
NICKEL	25.2		0.110	MDL	0.439	PQL	mg/Kg	J	Q, A
VANADIUM	56.0		0.0241	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-143-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 3:19:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 3:19:00 ***Analysis Type:*** REA3 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	171		0.296	MDL	1.12	PQL	mg/Kg	J	A

Sample ID: SL-143-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 3:19:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	B, Q
CHROMIUM	46.0		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	9.96		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	30.2		0.0893	MDL	0.447	PQL	mg/Kg	J	A
LEAD	14.6		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, E, E, A
NICKEL	32.6		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
VANADIUM	96.0		0.0246	MDL	0.112	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 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
HEXAVALENT CHROMIUM	0.48	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 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
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 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
MERCURY	0.0188	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 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
MERCURY	0.0075	U	0.0075	MDL	0.106	PQL	mg/Kg	UJ	FD

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0217	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.3	J	18.6	MDL	37.2	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *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)	0.58	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.0	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *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	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	UJ	Q

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *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	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

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

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z, FD

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 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	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.83	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.7	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.90	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.75	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* REA3 *Dilution:* 1

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

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	120	J	110	MDL	560	PQL	ug/Kg	U	B

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* REA4 *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	U	B

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	25		6.5	MDL	7.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	12		0.23	MDL	3.9	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.08	U	0.08	MDL	3.9	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-116-SA5DN-SB-2.0-3.0 ***Collected:*** 6/28/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	36		7.4	MDL	8.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	93		0.26	MDL	4.4	PQL	ug/Kg	J	FD
TOLUENE	0.1	J	0.09	MDL	4.4	PQL	ug/Kg	UJ	B, FD

Sample ID: SL-131-SA5DN-SB-3.5-4.5 ***Collected:*** 6/28/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	27		6.7	MDL	8.0	PQL	ug/Kg	U	B

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** RES ***Dilution:*** 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	27		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	17		0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-141-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:48:00 ***Analysis Type:*** RES ***Dilution:*** 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		7.2	MDL	8.6	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-143-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 3:19:00 ***Analysis Type:*** RES ***Dilution:*** 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		7.2	MDL	8.6	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	18		0.26	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE190

Method Blank Outlier Report

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18208BB221306	7/12/2011 1:06:00 PM	ALUMINUM	6.78 mg/Kg	DUP18-SA5DN-QC-062811
		CALCIUM	4.31 mg/Kg	SL-116-SA5DN-SB-2.0-3.0
		IRON	4.08 mg/Kg	SL-131-SA5DN-SB-3.5-4.5
		PHOSPHORUS	1.50 mg/Kg	SL-132-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0250 mg/Kg	SL-141-SA5DN-SB-4.0-5.0
		TIN	1.64 mg/Kg	SL-143-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
DUP18-SA5DN-QC-062811(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	TIN	3.53 mg/Kg	3.53U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18226AB220627A	7/5/2011 6:27:00 AM	ANTIMONY	0.0870 mg/Kg	DUP18-SA5DN-QC-062811
		COPPER	0.0943 mg/Kg	SL-116-SA5DN-SB-2.0-3.0
		LEAD	0.0272 mg/Kg	SL-131-SA5DN-SB-3.5-4.5
		NICKEL	0.0977 mg/Kg	SL-132-SA5DN-SB-4.0-5.0
		VANADIUM	0.0531 mg/Kg	SL-141-SA5DN-SB-4.0-5.0
				SL-143-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
DUP18-SA5DN-QC-062811(RES)	ANTIMONY	0.163 mg/Kg	0.163U mg/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	ANTIMONY	0.114 mg/Kg	0.114U mg/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.134 mg/Kg	0.134U mg/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.159 mg/Kg	0.159U mg/Kg

Method: 8015B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P81819AB322034A	6/30/2011 8:34:00 PM	METHANOL	100 ug/Kg	SL-132-SA5DN-SB-4.0-5.0
				SL-141-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-132-SA5DN-SB-4.0-5.0(REA4)	METHANOL	120 ug/Kg	560U ug/Kg
SL-141-SA5DN-SB-4.0-5.0(REA4)	METHANOL	130 ug/Kg	550U ug/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB05B210153A	7/1/2011 1:53:00 AM	ACETONE METHYLENE CHLORIDE TOLUENE	9.9 ug/Kg 2.0 ug/Kg 0.12 ug/Kg	DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-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
DUP18-SA5DN-QC-062811(RES)	ACETONE	25 ug/Kg	25U ug/Kg
DUP18-SA5DN-QC-062811(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	ACETONE	36 ug/Kg	36U ug/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	TOLUENE	0.1 ug/Kg	4.4U ug/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	ACETONE	27 ug/Kg	27U ug/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	ACETONE	27 ug/Kg	27U ug/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	17 ug/Kg	17U ug/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	ACETONE	31 ug/Kg	31U ug/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	ACETONE	31 ug/Kg	31U ug/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	18 ug/Kg	18U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_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-132-SA5DN -SB-4.0-5.0MS SL-132-SA5DN -SB-4.0-5.0MSD (SL-132-SA5DN -SB-4.0-5.0)	m-Terphenyl	68	71	75.00-125.00	-	m-Terphenyl	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN -SB-2.0-3.0MSD (SL-116-SA5DN -SB-2.0-3.0)	2,4-DINITROPHENOL BENZOIC ACID	- -	- -	20.00-143.00 10.00-173.00	33 (30.00) 38 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects)
SL-116-SA5DN -SB-2.0-3.0MSD (SL-116-SA5DN -SB-2.0-3.0)	BENZIDINE	-	21	35.00-141.00	75 (30.00)	BENZIDINE	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-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	CHROMIUM NICKEL VANADIUM ZINC	- - 168 150	129 136 173 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	CHROMIUM NICKEL VANADIUM ZINC	J(all detects) V,Zn, No Qual, >4x
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	ANTIMONY LEAD	29 -	24 28	75.00-125.00 75.00-125.00	- 21 (20.00)	ANTIMONY LEAD	J(all detects) R(all non-detects) Sb, J(all detects) UJ(all non-detects) Post Spike = 103%
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	BARIUM	197	165	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_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-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	5323 314 5713 426 - 127 173	4288 334 5502 729 233 144 331	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Ca, Fe, Mg, Mn, Ti, No Qual, >4x
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	PHOSPHORUS	3	198	75.00-125.00	44 (20.00)	PHOSPHORUS	J(all detects) UJ(all non-detects) Post spike = 94%

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN -SB-2.0-3.0MS (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	FLUORIDE	52	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (SL-116-SA5DN -SB-2.0-3.0)	METHYLENE CHLORIDE	599	-204	61.00-141.00	120 (30.00)	METHYLENE CHLORIDE	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-116-SA5DN-SB-2.0-3.0DUP (DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-SA5DN-SB-4.0-5.0)	ANTIMONY	23	20.00	J (all detects) UJ (all non-detects) Sb, Cd, Se, Ag, No Qual, Ok by Difference
	CADMIUM	32	20.00	
	LEAD	34	20.00	
	SELENIUM	29	20.00	
	SILVER	27	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY13Y211332A (TB-062811)	BROMOBENZENE	-	121	80.00-120.00	-	BROMOBENZENE	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LBLCSQ260013 (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	26 42	- -	37.00-120.00 53.00-110.00	- -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	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
P18226AQ220630A (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: PrepDE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
MOISTURE	7.1	8.0	12		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
FLUORIDE	5.9	3.4	54	50.00	J(all detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
ALUMINUM	16700	20600	21	50.00	
BORON	4.30	4.06	6	50.00	
CALCIUM	3530	3880	9	50.00	
IRON	22200	25700	15	50.00	
LITHIUM	26.1	28.1	7	50.00	
MAGNESIUM	5180	5710	10	50.00	
MANGANESE	256	329	25	50.00	
PHOSPHORUS	363	365	1	50.00	No Qualifiers Applied
POTASSIUM	2320	1840	23	50.00	
SODIUM	150	193	25	50.00	
STRONTIUM	22.8	26.9	16	50.00	
TIN	2.51	2.47	2	50.00	
TITANIUM	1210	1180	3	50.00	
Zirconium	3.95	4.06	3	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
ANTIMONY	0.114	0.163	35	50.00	
ARSENIC	8.46	12.7	40	50.00	
BARIUM	95.9	130	30	50.00	
BERYLLIUM	0.675	0.817	19	50.00	
CADMIUM	0.117	0.170	37	50.00	
CHROMIUM	26.1	41.6	46	50.00	
COBALT	7.09	10.4	38	50.00	
COPPER	12.2	16.0	27	50.00	No Qualifiers Applied
LEAD	8.01	8.55	7	50.00	
MOLYBDENUM	0.329	0.538	48	50.00	
NICKEL	20.7	33.8	48	50.00	
SELENIUM	0.103	0.128	22	50.00	
THALLIUM	0.295	0.362	20	50.00	
VANADIUM	51.9	83.9	47	50.00	
ZINC	58.4	77.4	28	50.00	
SILVER	0.0883	0.183	70	50.00	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: PrepDE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
HEXAVALENT CHROMIUM	0.46	0.48	4	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
MERCURY	0.106 U	0.0188	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
ACETONE	36	25	36	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	93	12	154	50.00	J(all detects)
TOLUENE	0.1	3.9 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	7.6	11	50.00	No Qualifiers Applied
Di-n-octylphthalate	19 U	6.8	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
PH	7.87	6.48	19	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	24.3	37.2	PQL	ng/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	BORON	J	4.06	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.5	PQL	mg/Kg	
	Zirconium	J	4.06	5.23	PQL	mg/Kg	
SL-116-SA5DN-SB-2.0-3.0	BORON	J	4.30	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	10.7	PQL	mg/Kg	
	Zirconium	J	3.95	5.33	PQL	mg/Kg	
SL-131-SA5DN-SB-3.5-4.5	BORON	J	4.95	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.62	11.1	PQL	mg/Kg	
	Zirconium	J	3.49	5.53	PQL	mg/Kg	
SL-132-SA5DN-SB-4.0-5.0	BORON	J	4.67	5.58	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	11.2	PQL	mg/Kg	
	Zirconium	J	2.99	5.58	PQL	mg/Kg	
SL-141-SA5DN-SB-4.0-5.0	BORON	J	4.73	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	11.0	PQL	mg/Kg	
	Zirconium	J	4.30	5.49	PQL	mg/Kg	
SL-143-SA5DN-SB-4.0-5.0	TIN	J	3.53	11.0	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	ANTIMONY	J	0.163	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.418	PQL	mg/Kg	
SL-116-SA5DN-SB-2.0-3.0	ANTIMONY	J	0.114	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.431	PQL	mg/Kg	
	SILVER	J	0.0883	0.108	PQL	mg/Kg	
SL-131-SA5DN-SB-3.5-4.5	CADMIUM	J	0.0645	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0962	0.429	PQL	mg/Kg	
	SILVER	J	0.0602	0.107	PQL	mg/Kg	
SL-132-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.134	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0846	0.446	PQL	mg/Kg	
SL-141-SA5DN-SB-4.0-5.0	SELENIUM	J	0.133	0.439	PQL	mg/Kg	J (all detects)
SL-143-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.159	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.447	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-116-SA5DN-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-131-SA5DN-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-143-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	MERCURY	J	0.0188	0.105	PQL	mg/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	MERCURY	J	0.0217	0.108	PQL	mg/Kg	J (all detects)
SL-143-SA5DN-SB-4.0-5.0	MERCURY	J	0.0139	0.111	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SB-4.0-5.0	METHANOL	J	120	560	PQL	ug/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	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-132-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.58	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-141-SA5DN-SB-4.0-5.0	Aroclor 5460	J	2.0	3.6	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-116-SA5DN-SB-2.0-3.0	TOLUENE	J	0.1	4.4	PQL	ug/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.3	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	6.8	19	PQL	ug/Kg	
SL-116-SA5DN-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	J (all detects)
SL-131-SA5DN-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)
SL-132-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	20	PQL	ug/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.6	1.8	PQL	ug/Kg	
SL-143-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.9	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.75	1.9	PQL	ug/Kg	

LDC #: 26277T4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE190 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	M. Gw
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW #	Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn.
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Se, Ag <5X pb J/nJ
VIII.	Laboratory Control Samples (LCS)	~~SW~~ A	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V.
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-116-SA5DN-SB-2.0-3.0	11		21		31	
2	SL-131-SA5DN-SB-3.5-4.5	12		22		32	
3	SL-132-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-141-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-143-SA5DN-SB-4.0-5.0	15		25		35	
6	DUP18-SA5DN-QC-062811	16		26		36	
7	SL-116-SA5DN-SB-2.0-3.0MS	17		27		37	
8	SL-116-SA5DN-SB-2.0-3.0MSD	18		28		38	
9	SL-116-SA5DN-SB-2.0-3.0DUP	19		29		39	
10		20		30		40	

Notes: # Sb = post spike 103%, ~~Sb~~ D = 94%.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE190
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6331376BKG Matrix Spike Lab Sample ID: 6331377MS Matrix Spike Duplicate Lab Sample ID: 6331378MSD
% Solids for Sample: 92.9
Batch Id(s): P18208B, P18226A, P18211B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		16725.5497		27851.4814		25865.7899		209.0148	213.1537	MG/KG	5323		4288		7			20	P
Antimony	121	0.1143	B	0.4753		0.4173		1.2541	1.2664	MG/KG	29	N	24	N	13		75 - 125	20	MS
Arsenic	75	8.4586		10.8040		10.9183		2.0901	2.1106	MG/KG	112		117		1			20	MS
Barium	137	95.8665		116.4421		113.3202		10.4507	10.5532	MG/KG	197		165		3			20	MS
Beryllium	9	0.6749		1.5321		1.4173		0.8361	0.8443	MG/KG	103		88		8		75 - 125	20	MS
Boron		4.3046	B	217.3618		224.8964		209.0148	213.1537	MG/KG	102		103		3		84 - 115	20	P
Cadmium	111	0.1166		1.1462		1.2128		1.0451	1.0553	MG/KG	99		104		6		75 - 125	20	MS
Calcium		3526.7913		4838.8830		4952.0660		418.0296	426.3074	MG/KG	314		334		2			20	P
Chromium	52	26.1141		38.2288		39.6800		10.4507	10.5532	MG/KG	116		129	N	4		75 - 125	20	MS
Cobalt	59	7.0915		56.2041		60.7653		52.2537	52.7660	MG/KG	94		102		8		75 - 125	20	MS
Copper	63	12.2282		22.7408		21.5918		10.4507	10.5532	MG/KG	101		89		5		75 - 125	20	MS
Iron		22153.4163		28124.1935		28017.5852		104.5074	106.5769	MG/KG	5713		5502		0			20	P
Lead	208	8.0065		10.9963		8.8963		3.1352	3.1660	MG/KG	95		28	N	21	*	75 - 125	20	MS
Lithium		26.0655		136.7772		138.9496		104.5074	106.5769	MG/KG	106		106		2		82 - 114	20	P
Magnesium		5175.8348		6066.7886		6729.5623		209.0148	213.1537	MG/KG	426		729		10			20	P
Manganese		256.2129		318.0150		380.2449		52.2537	53.2884	MG/KG	118		233		18			20	P
Mercury		0.0076	U	0.1934		0.1738		0.1791	0.1761	MG/KG	108		99		11		65 - 135	20	CV
Molybdenum	98	0.3285		9.9596		10.8065		10.4507	10.5532	MG/KG	92		99		8		75 - 125	20	MS
Nickel	60	20.6954		33.7768		35.0366		10.4507	10.5532	MG/KG	125		136	N	4		75 - 125	20	MS
Phosphorus		363.2011		366.3925		574.3363		104.5074	106.5769	MG/KG	3	N	198	N	44	*	75 - 125	20	P
Potassium		2315.3641		3642.6223		3844.8998		1045.0740	1065.7686	MG/KG	127	N	144	N	5		75 - 125	20	P
Selenium	78	0.1033	B	2.1633		2.2499		2.0901	2.1106	MG/KG	99		102		4		75 - 125	20	MS
Silver	107	0.0883	B	10.1518		11.3088		10.4507	10.5532	MG/KG	96		106		11		75 - 125	20	MS
Sodium		149.6787		1189.7823		1249.6243		1045.0740	1065.7686	MG/KG	100		103		5		75 - 125	20	P
Strontium		22.7947		131.2853		133.1273		104.5074	106.5769	MG/KG	104		104		1		75 - 115	20	P
Thallium	203	0.2952		0.7038		0.7248		0.4180	0.4221	MG/KG	98		102		3		75 - 125	20	MS
Tin		2.5120	B	354.6009		364.8627		418.0296	426.3074	MG/KG	84		85		3		80 - 110	20	P
Titanium		1209.8989		1390.7521		1562.7322		104.5074	106.5769	MG/KG	173		331		12			20	P
Vanadium	51	51.9268		69.4974		70.1366		10.4507	10.5532	MG/KG	168		173		1			20	MS
Zinc	66	58.4069		74.1167		70.7698		10.4507	10.5532	MG/KG	150		117		5			20	MS
Zirconium		3.9455	B	102.2229		105.9459		104.5074	106.5769	MG/KG	94		96		4		75 - 125	20	P

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

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

Sb = post spike 103% J/UJ
P = 94%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE190
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6331376BKG
% Solids for Duplicate: 93.8
Batch ID(s): P18208B, P18226A, P18211B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6331379DUP
% Solids for Sample: 92.9

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			16725.5497		14996.6990		11		P
Antimony	121		0.1143	B	0.0910	B	23		MS
Arsenic	75		8.4586		7.1804		16		MS
Barium	137		95.8665		92.9315		3		MS
Beryllium	9		0.6749		0.6062		11		MS
Boron			4.3046	B	4.0577	B	6		P
Cadmium	111	0.1	0.1166		0.0840	B	33		MS
Calcium			3526.7913		3563.3994		1		P
Chromium	52		26.1141		22.7738		14		MS
Cobalt	59		7.0915		7.8178		10		MS
Copper	63		12.2282		11.3637		7		MS
Iron			22153.4163		21162.8696		5		P
Lead	208		8.0065		5.6818		34	*	MS
Lithium			26.0655		25.8469		1		P
Magnesium			5175.8348		5112.2079		1		P
Manganese			256.2129		260.6429		2		P
Mercury			0.0076	U	0.0075	U			CV
Molybdenum	98	0.1	0.3285		0.3168		4		MS
Nickel	60		20.6954		18.2866		12		MS
Phosphorus			363.2011		407.2469		11		P
Potassium			2315.3641		2374.4549		3		P
Selenium	78		0.1033	B	0.0768	B	29		MS
Silver	107		0.0883	B	0.0671	B	27		MS
Sodium		106.6	149.6787		145.6510		3		P
Strontium			22.7947		20.8405		9		P
Thallium	203	0.1	0.2952		0.2784		6		MS
Tin			2.5120	B	2.4167	B	4		P
Titanium			1209.8989		1233.7154		2		P
Vanadium	51		51.9268		44.5767		15		MS
Zinc	66		58.4069		56.6285		3		MS
Zirconium			3.9455	B	3.9300	B	0		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.

DE190 3513

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE190
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6331376BKG Serial Dilution Lab Sample ID: 6331376L
Batch ID(s): P18208B, P18226A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		156934.1600		146767.9500		6		P
Antimony	121	0.5311	B	1.8500	U	100		MS
Arsenic	75	39.2900		54.8000		39		MS
Barium	137	445.3000		613.0000		38	E	MS
Beryllium	9	3.1350		4.1930		34		MS
Boron		40.3900	B	49.9000	B	24		P
Cadmium	111	0.5415		1.1000	U	100		MS
Calcium		33091.5300		35077.9500		6		P
Chromium	52	121.3000		194.2000		60	E	MS
Cobalt	59	32.9400		62.2500		89	E	MS
Copper	63	56.8000		91.0500		60	E	MS
Iron		207863.2900		209219.1500		1		P
Lead	208	37.1900		52.7000		42	E	MS
Lithium		244.5700		248.3500		2		P
Magnesium		48564.3400		49458.6000		2		P
Manganese		2404.0200		2501.0000		4		P
Molybdenum	98	1.5260		4.9455		224		MS
Nickel	60	96.1300		141.8500		48	E	MS
Phosphorus		3407.8800		3400.9500		0		P
Potassium		21724.8300		21398.9000		2		P
Selenium	78	0.4800	B	1.4500	U	100		MS
Silver	107	0.4102	B	2.9225		612		MS
Sodium		1404.4200		1377.1000	B	2		P
Strontium		213.8800		212.5500		1		P
Thallium	203	1.3710		1.7465	B	27		MS
Tin		23.5700	B	21.2000	B	10		P
Titanium		11352.3600		11863.5000		5		P
Vanadium	51	241.2000		338.6000		40	E	MS
Zinc	66	271.3000		389.5000		44		MS
Zirconium		37.0200	B	54.1000	B	46		P

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

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

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

SAMPLE DELIVERY GROUP

DE191

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-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3050B	6010B	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3050B	6020	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3060A	7199	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3550B	8082	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3550B	8270C	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3550B	8270C SIM	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	5035	8260B	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	5035	8260B SIM	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	METHOD	300.0	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	METHOD	314.0	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	METHOD	7471A	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3050B	6010B	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3050B	6020	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3060A	7199	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3550B	8082	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3550B	8270C	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3550B	8270C SIM	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	METHOD	300.0	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	METHOD	314.0	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	METHOD	7471A	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3050B	6010B	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3050B	6020	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3060A	7199	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3550B	8082	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3550B	8270C	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	5035	8260B	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	5035	8260B SIM	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	300.0	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	314.0	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	6850	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	7471A	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5MS	P332109R241534A	MS	METHOD	6850	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3050B	6010B	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3050B	6020	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3060A	7199	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3550B	8082	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3550B	8270C	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3550B	8270C SIM	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	5035	8260B	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	5035	8260B SIM	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	METHOD	300.0	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	METHOD	314.0	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	METHOD	7471A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3005A	6010B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3020A	6020	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8015B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8015M	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8082	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8270C	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8270C SIM	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3520C	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	5030B	8015M	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	5030B	8260B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	5030B	8260B SIM	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	8330	8330A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	300.0	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	314.0	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	7199	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	8015B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	8015M	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	METHOD	7470A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	METHOD	8315A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	METHOD	9012B	III
29-Jun-2011	EB20-SA5DN-SB-062911MSD	P332115M322230A	MSD	Gen Prep	8015B	III
29-Jun-2011	EB20-SA5DN-SB-062911MS	P332115R322215A	MS	Gen Prep	8015B	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3050B	6010B	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3050B	6020	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3060A	7199	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3550B	8082	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3550B	8270C	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3550B	8270C SIM	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	5035	8260B	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	5035	8260B SIM	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	METHOD	300.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	METHOD	314.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	METHOD	7471A	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0DU	P332107D270739A	DUP	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0DU	P332107D272004B	DUP	METHOD	314.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0MS	P332107R270753A	MS	METHOD	300.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0MS	P332107R272027B	MS	METHOD	314.0	III
29-Jun-2011	TB-062911	6332114	TB	5030B	8260B	III
29-Jun-2011	TB-062911	6332114	TB	5030B	8260B SIM	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3050B	6010B	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3050B	6020	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3060A	7199	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3550B	8082	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3550B	8270C	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3550B	8270C SIM	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	5035	8260B	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	5035	8260B SIM	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	METHOD	300.0	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	METHOD	314.0	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	METHOD	7471A	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3050B	6010B	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3050B	6020	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3060A	7199	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3550B	8082	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3550B	8270C	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3550B	8270C SIM	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	METHOD	300.0	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	METHOD	314.0	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE191 Laboratory: LL

EDD Filename: PrepDE191 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 **Collected:** 6/29/2011 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
FLUORIDE	2.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-129-SA5DN-SB-2.5-3.5 **Collected:** 6/29/2011 10:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-152-SA5DN-SB-2.5-3.5 **Collected:** 6/29/2011 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
FLUORIDE	7.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA5DN-SB-4.0-5.0 **Collected:** 6/29/2011 7:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA5DN-SB-9.0-10.0 **Collected:** 6/29/2011 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
FLUORIDE	2.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-165-SA5DN-SB-4.0-5.0 **Collected:** 6/29/2011 2:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected:** 6/29/2011 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
FLUORIDE	5.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **EB20-SA5DN-SB-062911** ***Collected:*** **6/29/2011 11:00:00** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0058	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00063	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: **METALS**

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

Sample ID: **SL-128-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 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
BORON	4.36	J	0.397	MDL	5.52	PQL	mg/Kg	J	Z
SODIUM	95.8	J	6.57	MDL	110	PQL	mg/Kg	J	Z
TIN	2.81	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.74	J	0.508	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: **SL-129-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 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	3.57	J	0.374	MDL	5.19	PQL	mg/Kg	J	Z
TIN	2.47	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.93	J	0.478	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: **SL-152-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 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
TIN	2.52	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: **SL-154-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 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
TIN	2.70	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.07	J	0.519	MDL	5.64	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-154-SA5DN-SB-9.0-10.0** ***Collected:*** **6/29/2011 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
TIN	2.80	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.31	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: **SL-165-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 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
BORON	5.26	J	0.394	MDL	5.48	PQL	mg/Kg	J	Z
TIN	2.69	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.53	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: **SL-165-SA5DN-SB-9.0-10.0** ***Collected:*** **6/29/2011 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
BORON	4.98	J	0.367	MDL	5.09	PQL	mg/Kg	J	Z
TIN	2.24	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	4.49	J	0.469	MDL	5.09	PQL	mg/Kg	J	Z

Method Category: **METALS**

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

Sample ID: **SL-128-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 11:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0588	J	0.0490	MDL	0.111	PQL	mg/Kg	J	Z
SILVER	0.0548	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: **SL-129-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 10:50:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0597	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: **SL-129-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 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	0.0884	J	0.0761	MDL	0.206	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 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
SILVER	0.0387	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 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	0.424	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 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	0.126	J	0.0789	MDL	0.213	PQL	mg/Kg	U	B
SILVER	0.0718	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0835	MDL	0.226	PQL	mg/Kg	U	B

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0807	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0765	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
SILVER	0.0749	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0952	J	0.0795	MDL	0.215	PQL	mg/Kg	U	B
SILVER	0.0685	J	0.0153	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0591	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0818	J	0.0754	MDL	0.204	PQL	mg/Kg	U	B
SILVER	0.0916	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: AQ**

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 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
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 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
HEXAVALENT CHROMIUM	0.45	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-129-SA5DN-SB-2.5-3.5 **Collected: 6/29/2011 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	0.38	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 **Collected: 6/29/2011 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
HEXAVALENT CHROMIUM	0.43	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 **Collected: 6/29/2011 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
HEXAVALENT CHROMIUM	0.64	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-9.0-10.0 **Collected: 6/29/2011 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
HEXAVALENT CHROMIUM	0.46	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected: 6/29/2011 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
HEXAVALENT CHROMIUM	0.73	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-152-SA5DN-SB-2.5-3.5 **Collected: 6/29/2011 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
MERCURY	0.0114	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 **Collected: 6/29/2011 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
MERCURY	0.0095	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected: 6/29/2011 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
MERCURY	0.0134	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB20-SA5DN-SB-062911 **Collected: 6/29/2011 11:00:00** **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	L
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	L

Sample ID: EB20-SA5DN-SB-062911 **Collected: 6/29/2011 11:00:00** **Analysis Type: REA2** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C15-C20)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C21-C30)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C30-C40)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C8-C11)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-129-SA5DN-SB-2.5-3.5 **Collected: 6/29/2011 10:50:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected: 6/29/2011 2:55:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *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	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 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
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES-ACID *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	3500	U	3500	MDL	11000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	1800	U	1800	MDL	5300	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.021	J	0.020	MDL	0.099	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.44	J	0.099	MDL	2.0	PQL	ug/L	UJ	L, E, B
Butylbenzylphthalate	0.18	J	0.099	MDL	2.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.20	J	0.099	MDL	2.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.35	J	0.099	MDL	2.0	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	7.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.8	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** AQ

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	E
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L, E

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	21		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.0		0.23	MDL	3.9	PQL	ug/Kg	U	B, F
TOLUENE	0.14	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-129-SA5DN-SB-2.5-3.5 ***Collected:*** 6/29/2011 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.3	MDL	7.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	12		0.23	MDL	3.8	PQL	ug/Kg	U	B, F
TOLUENE	0.24	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-152-SA5DN-SB-2.5-3.5 ***Collected:*** 6/29/2011 9:25:00 ***Analysis Type:*** RES ***Dilution:*** 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	20		6.8	MDL	8.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	6.0		0.24	MDL	4.1	PQL	ug/Kg	U	B, F
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-154-SA5DN-SB-4.0-5.0 ***Collected:*** 6/29/2011 7:45:00 ***Analysis Type:*** RES ***Dilution:*** 0.81

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	16		6.2	MDL	7.4	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.5	J	0.22	MDL	3.7	PQL	ug/Kg	U	B, F
TOLUENE	0.09	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-165-SA5DN-SB-4.0-5.0 ***Collected:*** 6/29/2011 2:50:00 ***Analysis Type:*** RES ***Dilution:*** 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	21		6.8	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	5.5		0.24	MDL	4.1	PQL	ug/Kg	U	B, F
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE191

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE191 **Laboratory: LL**
EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB20-SA5DN-SB-062911 (RES)	Sampling To Analysis	25.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method: 8015M **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB20-SA5DN-SB-062911 (REA2)	Sampling To Analysis	8.00	7.00	DAYS	J(all detects) UJ(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18848GB220221	7/14/2011 2:21:00 AM	BORON CALCIUM IRON MAGNESIUM STRONTIUM	0.0093 mg/L 0.112 mg/L 0.0202 mg/L 0.0082 mg/L 0.00067 mg/L	EB20-SA5DN-SB-062911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB20-SA5DN-SB-062911(REA2)	BORON	0.0058 mg/L	0.0058U mg/L
EB20-SA5DN-SB-062911(REA2)	STRONTIUM	0.00063 mg/L	0.00063U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18208BB221306	7/12/2011 1:06:00 PM	ALUMINUM CALCIUM IRON PHOSPHORUS STRONTIUM TIN	6.78 mg/Kg 4.31 mg/Kg 4.08 mg/Kg 1.50 mg/Kg 0.0250 mg/Kg 1.64 mg/Kg	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-165-SA5DN-SB-9.0-10.0(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18226AB220627A	7/5/2011 6:27:00 AM	ANTIMONY COPPER LEAD NICKEL VANADIUM	0.0870 mg/Kg 0.0943 mg/Kg 0.0272 mg/Kg 0.0977 mg/Kg 0.0531 mg/Kg	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-129-SA5DN-SB-2.5-3.5(RES)	ANTIMONY	0.0884 mg/Kg	0.0884U mg/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	ANTIMONY	0.126 mg/Kg	0.126U mg/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.102 mg/Kg	0.102U mg/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.0952 mg/Kg	0.0952U mg/Kg
SL-165-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.0818 mg/Kg	0.0818U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB07B211240A	7/5/2011 12:40:00 PM	ACETONE METHYLENE CHLORIDE TOLUENE	11 ug/Kg 1.6 ug/Kg 0.13 ug/Kg	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	ACETONE	21 ug/Kg	21U ug/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	3.9U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	TOLUENE	0.24 ug/Kg	3.8U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	ACETONE	20 ug/Kg	20U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	6.0 ug/Kg	6.0U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	TOLUENE	0.12 ug/Kg	4.1U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	ACETONE	16 ug/Kg	16U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	3.7U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	3.7U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	ACETONE	21 ug/Kg	21U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.5 ug/Kg	5.5U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.1U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE191 Laboratory: LL

EDD Filename: DE191_v1. eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC18B260159	7/12/2011 1:59:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	0.19 ug/L	EB20-SA5DN-SB-062911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB20-SA5DN-SB-062911(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.44 ug/L	2.0U ug/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB20-SA5DN-SB-062911 (RES)	6/29/2011 11:00:00 AM	METHYLENE CHLORIDE	5 ug/L	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	6.0 ug/Kg	6.0U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	3.7U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.5 ug/Kg	5.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE191 Laboratory: LL

EDD Filename: DE191_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-128-SA5DN-SB-4.0-5.0MS (SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0)	FLUORIDE	53	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE191 Laboratory: LL

EDD Filename: DE191_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
P11830AQ241844A (EB20-SA5DN-SB-062911)	Aroclor 5442	92	-	35.00-84.00	-	Aroclor 5432, Aroclor 5442, Aroclor 5460	J (all detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11869AQ240015A P11869AY240057A (EB20-SA5DN-SB-062911)	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	J(all detects)
P11869AQ240015A P11869AY240057A (EB20-SA5DN-SB-062911)	1,3,5-TRINITROBENZENE Tetryl	- 47	- 67	53.00-129.00 72.00-141.00	39 (30.00) 35 (30.00)	1,3,5-TRINITROBENZENE Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11873AQ321604A P11873AY321617A (EB20-SA5DN-SB-062911)	ETHYLENE GLYCOL Propylene glycol	76 70	76 75	80.00-124.00 80.00-120.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3WCLCSQ260230 P3WCLCSY260303 (EB20-SA5DN-SB-062911)	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE	126 131	133 140	69.00-123.00 59.00-130.00	- -	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE	J(all detects)
P3WCLCSQ260230 P3WCLCSY260303 (EB20-SA5DN-SB-062911)	BIS(2-ETHYLHEXYL)PHTHALAT	225	-	57.00-154.00	69 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY13Y211332A (EB20-SA5DN-SB-062911 TB-062911)	BROMOBENZENE	-	121	80.00-120.00	-	BROMOBENZENE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LBLCSQ260013 (SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	26 42	- -	37.00-120.00 53.00-110.00	- -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	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
P18226AQ220630A (SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No qual, SRM within QC limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE191 | Laboratory: LL

EDD Filename: DE191_v1. | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5DN-SB-062911	BORON	J	0.0058	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00063	0.0050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5DN-SB-062911	2-METHYLNAPHTHALENE	J	0.021	0.099	PQL	ug/L	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.44	2.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.18	2.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.20	2.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.35	2.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	BORON	J	4.36	5.52	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.8	110	PQL	mg/Kg	
	TIN	J	2.81	11.0	PQL	mg/Kg	
	Zirconium	J	3.74	5.52	PQL	mg/Kg	
SL-129-SA5DN-SB-2.5-3.5	BORON	J	3.57	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.4	PQL	mg/Kg	
	Zirconium	J	2.93	5.19	PQL	mg/Kg	
SL-152-SA5DN-SB-2.5-3.5	TIN	J	2.52	11.1	PQL	mg/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	TIN	J	2.70	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.07	5.64	PQL	mg/Kg	
SL-154-SA5DN-SB-9.0-10.0	TIN	J	2.80	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.31	5.56	PQL	mg/Kg	
SL-165-SA5DN-SB-4.0-5.0	BORON	J	5.26	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.0	PQL	mg/Kg	
	Zirconium	J	3.53	5.48	PQL	mg/Kg	
SL-165-SA5DN-SB-9.0-10.0	BORON	J	4.98	5.09	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.2	PQL	mg/Kg	
	Zirconium	J	4.49	5.09	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0588	0.111	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0548	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA5DN-SB-2.5-3.5	ANTIMONY	J	0.0884	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.411	PQL	mg/Kg	
	SILVER	J	0.0387	0.103	PQL	mg/Kg	
SL-152-SA5DN-SB-2.5-3.5	ANTIMONY	J	0.126	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.424	0.426	PQL	mg/Kg	
	SILVER	J	0.0718	0.107	PQL	mg/Kg	
SL-154-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.102	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.452	PQL	mg/Kg	
SL-154-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0765	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0807	0.449	PQL	mg/Kg	
	SILVER	J	0.0749	0.112	PQL	mg/Kg	
SL-165-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0952	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.430	PQL	mg/Kg	
	SILVER	J	0.0685	0.107	PQL	mg/Kg	
SL-165-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0818	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.407	PQL	mg/Kg	
	SILVER	J	0.0916	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-129-SA5DN-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-152-SA5DN-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)
SL-154-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.46	1.2	PQL	mg/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-152-SA5DN-SB-2.5-3.5	MERCURY	J	0.0114	0.104	PQL	mg/Kg	J (all detects)
SL-165-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.108	PQL	mg/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	MERCURY	J	0.0134	0.103	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA5DN-SB-2.5-3.5	AROCLOR 1254	J	0.67	1.8	PQL	ug/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	TOLUENE	J	0.14	3.9	PQL	ug/Kg	J (all detects)
SL-129-SA5DN-SB-2.5-3.5	TOLUENE	J	0.24	3.8	PQL	ug/Kg	J (all detects)
SL-152-SA5DN-SB-2.5-3.5	TOLUENE	J	0.12	4.1	PQL	ug/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.5 0.09	3.7 3.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-165-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	21	PQL	ug/Kg	J (all detects)
SL-152-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.4	20	PQL	ug/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	20	PQL	ug/Kg	J (all detects)
SL-154-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	21	PQL	ug/Kg	J (all detects)
SL-165-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE CHRYSENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE	J J J J J J	1.3 1.3 0.95 1.5 1.1 1.1	1.7 1.7 1.7 1.7 1.7 1.7	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

LDC #: 26407M4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE191 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	CS
VII.	Duplicate Sample Analysis	N	↓
VIII.	Laboratory Control Samples (LCS)	~~A~~ N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=8

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-128-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-129-SA5DN-SB-2.5-3.5	12		22		32	
3	SL-152-SA5DN-SB-2.5-3.5	13		23		33	
4	SL-154-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-154-SA5DN-SB-9.0-10.0	15		25		35	
6	SL-165-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-165-SA5DN-SB-9.0-10.0	17		27		37	
8	EB20-SA5DN-SB-062911	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26407M4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 6/29/11 Soil factor applied 100x (Hg: 167x)
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification												
	8	Action Level	No Quals											
B	5.8	2.9												
Sr	0.63	0.315												

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

SAMPLE DELIVERY GROUP

DE192

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3550B	8082	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3550B	8270C	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3550B	8270C SIM	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	5035	8260B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	5035	8260B SIM	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	METHOD	314.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220053	DUP	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220712	DUP	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920A	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920B	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920C	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920D	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D221821	DUP	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D271301A	DUP	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D271600A	DUP	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R220057	MS	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R220717	MS	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027A	MS	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027B	MS	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027C	MS	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027D	MS	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221823	MS	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R241813A	MS	3550B	8082	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R260033	MS	3550B	8270C	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R262109	MS	3550B	8270C SIM	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R271316A	MS	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R271523A	MS	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3550B	8082	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3550B	8270C	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3550B	8270C SIM	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	314.0	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	6850	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0D	P333521D272119A	DUP	METHOD	314.0	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0M	P333521R272142A	MS	METHOD	314.0	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3050B	6010B	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3050B	6020	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3060A	7199	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3550B	8082	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3550B	8270C	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3550B	8270C SIM	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	5035	8260B	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	5035	8260B SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	METHOD	300.0	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	METHOD	314.0	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	METHOD	7471A	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3050B	6010B	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3050B	6020	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3060A	7199	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3550B	8082	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3550B	8270C	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3550B	8270C SIM	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	METHOD	300.0	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	METHOD	314.0	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	METHOD	7471A	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3050B	6010B	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3050B	6020	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3060A	7199	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3550B	8082	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3550B	8270C	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3550B	8270C SIM	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	5035	8260B	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	5035	8260B SIM	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	METHOD	300.0	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	METHOD	314.0	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	METHOD	7471A	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3050B	6010B	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3050B	6020	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3550B	8082	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3550B	8270C	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3550B	8270C SIM	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	METHOD	300.0	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	METHOD	314.0	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	METHOD	7471A	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3050B	6010B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3050B	6020	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3060A	7199	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3546	1625C	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8082	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8270C	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8270C SIM	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	5035	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	5035	8260B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	5035	8260B SIM	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	8330	8330A	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	6850	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	7471A	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	9012B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0DU	P333530D270242B	DUP	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0DU	P333530D272318B	DUP	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R261548	MS	3546	1625C	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R270305B	MS	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R272333B	MS	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R321722A	MS	METHOD	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R322030A	MS	METHOD	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3050B	6010B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3050B	6020	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3060A	7199	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3546	1625C	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8082	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8270C	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8270C SIM	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	5035	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	5035	8260B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	5035	8260B SIM	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	8330	8330A	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	7471A	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	8315A	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	9012B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3050B	6010B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3050B	6020	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3060A	7199	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3550B	8082	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3550B	8270C	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3550B	8270C SIM	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	5035	8260B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	5035	8260B SIM	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	METHOD	300.0	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	METHOD	314.0	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	METHOD	7471A	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3050B	6010B	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3050B	6020	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3060A	7199	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3550B	8082	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3550B	8270C	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3550B	8270C SIM	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	METHOD	300.0	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	METHOD	314.0	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	METHOD	7471A	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3050B	6010B	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3050B	6020	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3060A	7199	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3550B	8270C	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3550B	8270C SIM	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	5035	8260B	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	5035	8260B SIM	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	METHOD	300.0	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	METHOD	314.0	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	METHOD	7471A	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3050B	6010B	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3050B	6020	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3060A	7199	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3550B	8082	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3550B	8270C	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3550B	8270C SIM	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	METHOD	300.0	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	METHOD	314.0	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	METHOD	7471A	III
30-Jun-2011	TB-063011	6333534	TB	5030B	8015M	III
30-Jun-2011	TB-063011	6333534	TB	5030B	8260B	III
30-Jun-2011	TB-063011	6333534	TB	5030B	8260B SIM	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3050B	6010B	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3050B	6020	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3060A	7199	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3550B	8082	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3550B	8270C	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3550B	8270C SIM	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	5035	8260B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	5035	8260B SIM	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	METHOD	300.0	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	METHOD	314.0	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	METHOD	7471A	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3050B	6010B	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3050B	6020	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3060A	7199	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3550B	8082	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3550B	8270C	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3550B	8270C SIM	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	METHOD	300.0	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	METHOD	314.0	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
FLUORIDE	4.6		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.6		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
FLUORIDE	2.7		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
FLUORIDE	5.7		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
FLUORIDE	2.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	4.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.0		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
FLUORIDE	4.5		0.96	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.7	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
FLUORIDE	1.7		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
FLUORIDE	9.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
TIN	2.57	J	0.350	MDL	10.9	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 **Collected:** 6/30/2011 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
Zirconium	5.21	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5DN-SB-9.0-10.0 **Collected:** 6/30/2011 7:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.14	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.533	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 **Collected:** 6/30/2011 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
TIN	2.76	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.95	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-9.0-10.0 **Collected:** 6/30/2011 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
TIN	2.62	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.62	J	0.533	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 **Collected:** 6/30/2011 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
TIN	2.47	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.75	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-9.0-10.0 **Collected:** 6/30/2011 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
TIN	2.66	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.15	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-4.0-5.0 **Collected:** 6/30/2011 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
SODIUM	106	J	6.62	MDL	111	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-187-SA5DN-SB-4.0-5.0 ***Collected:*** 6/30/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.59	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.71	J	0.512	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 ***Collected:*** 6/30/2011 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
SODIUM	99.9	J	6.81	MDL	114	PQL	mg/Kg	J	Z
TIN	2.77	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.55	J	0.526	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 ***Collected:*** 6/30/2011 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
TIN	2.81	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-196-SA5DN-SB-9.0-10.0 ***Collected:*** 6/30/2011 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
SODIUM	112	J	6.81	MDL	114	PQL	mg/Kg	J	Z
TIN	2.89	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.25	J	0.527	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 ***Collected:*** 6/30/2011 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
TIN	2.61	J	0.373	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	5.00	J	0.536	MDL	5.82	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 ***Collected:*** 6/30/2011 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
TIN	2.80	J	0.370	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	5.34	J	0.532	MDL	5.79	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
TIN	2.51	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
TIN	2.73	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.31	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.5		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	11.4		0.0893	MDL	0.446	PQL	mg/Kg	J	A
CADMIUM	0.200		0.0491	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	35.0		0.134	MDL	0.446	PQL	mg/Kg	J	Q, A
COBALT	10.4		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	15.2		0.0893	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	7.87		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	20.5		0.112	MDL	0.446	PQL	mg/Kg	J	Q, A
SILVER	0.0381	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	66.5		0.0246	MDL	0.112	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.270	J	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.124	MDL	0.468	PQL	mg/Kg	J	A

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.460		0.0866	MDL	0.234	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	11.9		0.0936	MDL	0.468	PQL	mg/Kg	J	A
CADMIUM	0.390		0.0515	MDL	0.117	PQL	mg/Kg	J	E
CHROMIUM	44.1		0.140	MDL	0.468	PQL	mg/Kg	J	Q, A
COBALT	11.3		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	20.6		0.0936	MDL	0.468	PQL	mg/Kg	J	Q, A
LEAD	10.6		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A
NICKEL	23.8		0.117	MDL	0.468	PQL	mg/Kg	J	Q, A
SILVER	0.0476	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	85.9		0.0257	MDL	0.117	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.241	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	172		0.117	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.274		0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	10.2		0.0885	MDL	0.443	PQL	mg/Kg	J	A
CADMIUM	0.368		0.0487	MDL	0.111	PQL	mg/Kg	J	E
CHROMIUM	51.1		0.133	MDL	0.443	PQL	mg/Kg	J	Q, A
COBALT	14.0		0.0221	MDL	0.111	PQL	mg/Kg	J	A
COPPER	21.6		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, A
LEAD	11.7		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A
NICKEL	30.9		0.111	MDL	0.443	PQL	mg/Kg	J	Q, A
VANADIUM	88.3		0.0243	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0672	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	145		0.123	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.329		0.0857	MDL	0.232	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	12.2		0.0927	MDL	0.463	PQL	mg/Kg	J	A
CADMIUM	0.406		0.0510	MDL	0.116	PQL	mg/Kg	J	E
CHROMIUM	57.6		0.139	MDL	0.463	PQL	mg/Kg	J	Q, A
COBALT	17.0		0.0232	MDL	0.116	PQL	mg/Kg	J	A
COPPER	25.4		0.0927	MDL	0.463	PQL	mg/Kg	J	Q, A
LEAD	13.4		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	35.2		0.116	MDL	0.463	PQL	mg/Kg	J	Q, A
SILVER	0.0687	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
VANADIUM	103		0.0255	MDL	0.116	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.288	J	0.0656	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.120	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.397		0.0836	MDL	0.226	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	12.5		0.0904	MDL	0.452	PQL	mg/Kg	J	A
CADMIUM	0.588		0.0497	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	59.7		0.136	MDL	0.452	PQL	mg/Kg	J	Q, A
COBALT	17.2		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	28.7		0.0904	MDL	0.452	PQL	mg/Kg	J	Q, A
LEAD	17.0		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	37.2		0.113	MDL	0.452	PQL	mg/Kg	J	Q, A
SILVER	0.0888	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	110		0.0249	MDL	0.113	PQL	mg/Kg	J	A

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	0.124	J	0.0652	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	201		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	0.314		0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
ARSENIC	13.2		0.0899	MDL	0.449	PQL	mg/Kg	J	A
CADMIUM	0.250		0.0494	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	52.1		0.135	MDL	0.449	PQL	mg/Kg	J	Q, A
COBALT	18.3		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	21.5		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, A
LEAD	13.6		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	32.7		0.112	MDL	0.449	PQL	mg/Kg	J	Q, A
VANADIUM	95.8		0.0247	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	198		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.323		0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	7.72		0.0898	MDL	0.449	PQL	mg/Kg	J	A
CADMIUM	0.442		0.0494	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	50.8		0.135	MDL	0.449	PQL	mg/Kg	J	Q, A
COBALT	16.0		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	23.9		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, A
LEAD	12.6		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	30.8		0.112	MDL	0.449	PQL	mg/Kg	J	Q, A
SILVER	0.0539	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	95.1		0.0247	MDL	0.112	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0827	J	0.0677	MDL	0.467	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	194		0.124	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0863	MDL	0.233	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	11.5		0.0933	MDL	0.467	PQL	mg/Kg	J	A
CADMIUM	0.193		0.0513	MDL	0.117	PQL	mg/Kg	J	E
CHROMIUM	54.7		0.140	MDL	0.467	PQL	mg/Kg	J	Q, A
COBALT	19.5		0.0233	MDL	0.117	PQL	mg/Kg	J	A
COPPER	27.7		0.0933	MDL	0.467	PQL	mg/Kg	J	Q, A
LEAD	13.3		0.0119	MDL	0.233	PQL	mg/Kg	J	Q, A
NICKEL	35.9		0.117	MDL	0.467	PQL	mg/Kg	J	Q, A
SILVER	0.0786	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	102		0.0257	MDL	0.117	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0637	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	157		0.116	MDL	0.440	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0813	MDL	0.220	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.87		0.0879	MDL	0.440	PQL	mg/Kg	J	A
CADMIUM	0.297		0.0484	MDL	0.110	PQL	mg/Kg	J	E
CHROMIUM	40.0		0.132	MDL	0.440	PQL	mg/Kg	J	Q, A
COBALT	12.8		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	18.8		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, A
LEAD	10.4		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, A
NICKEL	23.5		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
SILVER	0.0604	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	67.0		0.0242	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0989	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	187		0.120	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	0.398		0.0839	MDL	0.227	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	10.3		0.0907	MDL	0.453	PQL	mg/Kg	J	A
CADMIUM	0.259		0.0499	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	60.5		0.136	MDL	0.453	PQL	mg/Kg	J	Q, A
COBALT	15.3		0.0227	MDL	0.113	PQL	mg/Kg	J	A
COPPER	26.3		0.0907	MDL	0.453	PQL	mg/Kg	J	Q, A
LEAD	13.0		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, A
NICKEL	31.0		0.113	MDL	0.453	PQL	mg/Kg	J	Q, A
VANADIUM	109		0.0249	MDL	0.113	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0669	MDL	0.461	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.122	MDL	0.461	PQL	mg/Kg	J	A

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.288		0.0854	MDL	0.231	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.40		0.0923	MDL	0.461	PQL	mg/Kg	J	A
CADMIUM	0.371		0.0507	MDL	0.115	PQL	mg/Kg	J	E
CHROMIUM	45.3		0.138	MDL	0.461	PQL	mg/Kg	J	Q, A
COBALT	13.7		0.0231	MDL	0.115	PQL	mg/Kg	J	A
COPPER	21.6		0.0923	MDL	0.461	PQL	mg/Kg	J	Q, A
LEAD	11.3		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A
NICKEL	26.5		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0502	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	83.6		0.0254	MDL	0.115	PQL	mg/Kg	J	A

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	139		0.124	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.218	J	0.0865	MDL	0.234	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.88		0.0935	MDL	0.467	PQL	mg/Kg	J	A
CADMIUM	0.0942	J	0.0514	MDL	0.117	PQL	mg/Kg	J	Z, E
CHROMIUM	45.2		0.140	MDL	0.467	PQL	mg/Kg	J	Q, A
COBALT	9.78		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	19.9		0.0935	MDL	0.467	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-197-SA5DN-SB-9.0-10.0 ***Collected:*** 6/30/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.4		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A
NICKEL	20.6		0.117	MDL	0.467	PQL	mg/Kg	J	Q, A
SILVER	0.0682	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	79.5		0.0257	MDL	0.117	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5DN-SB-4.0-5.0 ***Collected:*** 6/30/2011 1:55:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 ***Collected:*** 6/30/2011 1:55:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.119	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5DN-SB-4.0-5.0 ***Collected:*** 6/30/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.195	J	0.0834	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.59		0.0902	MDL	0.451	PQL	mg/Kg	J	A
CADMIUM	0.258		0.0496	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	44.2		0.135	MDL	0.451	PQL	mg/Kg	J	Q, A
COBALT	13.4		0.0225	MDL	0.113	PQL	mg/Kg	J	A
COPPER	20.5		0.0902	MDL	0.451	PQL	mg/Kg	J	Q, A
LEAD	10.4		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	26.1		0.113	MDL	0.451	PQL	mg/Kg	J	Q, A
SILVER	0.0459	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	79.8		0.0248	MDL	0.113	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5DN-SB-9.0-10.0 ***Collected:*** 6/30/2011 2:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.121	MDL	0.458	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0847	MDL	0.229	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	7.85		0.0916	MDL	0.458	PQL	mg/Kg	J	A
CADMIUM	0.0908	J	0.0504	MDL	0.114	PQL	mg/Kg	J	Z, E
CHROMIUM	42.1		0.137	MDL	0.458	PQL	mg/Kg	J	Q, A
COBALT	7.10		0.0229	MDL	0.114	PQL	mg/Kg	J	A
COPPER	17.0		0.0916	MDL	0.458	PQL	mg/Kg	J	Q, A
LEAD	9.49		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, A
NICKEL	19.2		0.114	MDL	0.458	PQL	mg/Kg	J	Q, A
SILVER	0.0183	J	0.0163	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	75.5		0.0252	MDL	0.114	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.70	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	0.54	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.74	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.88	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.63	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 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
HEXAVALENT CHROMIUM	0.56	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	0.0102	J	0.0081	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
MERCURY	0.0174	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0119	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

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

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	7.0	J	5.9	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *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)	0.76	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	1.8		0.47	MDL	1.4	PQL	mg/Kg	U	B

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.95	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

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

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *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	0.66	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *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	14	J	6.7	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *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	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.7	J	7.1	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	1.6	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.8	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *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	10	J	7.2	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.61	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.8	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.9	MDL	21	PQL	ug/Kg	U	B
FLUORANTHENE	0.90	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.80	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.1	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
ANTHRACENE	0.45	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.7	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	0.81	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.92	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.9	MDL	21	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM Matrix: SO

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 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	11	J	6.9	MDL	21	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8260B Matrix: SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.17	J	0.11	MDL	4.5	PQL	ug/Kg	J	Z
TOLUENE	0.12	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.11	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.15	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	7.7		0.24	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	7.7		0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES *Dilution:* 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	10		0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE192

Method Blank Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18708AB220948	7/14/2011 9:48:00 AM	ALUMINUM	16.6 mg/Kg	SL-181-SA5DN-SB-4.0-5.0
		BORON	1.17 mg/Kg	SL-181-SA5DN-SB-9.0-10.0
		CALCIUM	22.7 mg/Kg	SL-182-SA5DN-SB-4.0-5.0
		IRON	8.96 mg/Kg	SL-182-SA5DN-SB-9.0-10.0
		MAGNESIUM	1.36 mg/Kg	SL-184-SA5DN-SB-4.0-5.0
		MANGANESE	0.0690 mg/Kg	SL-184-SA5DN-SB-9.0-10.0
		PHOSPHORUS	1.55 mg/Kg	SL-187-SA5DN-SB-4.0-5.0
		STRONTIUM	0.121 mg/Kg	SL-187-SA5DN-SB-9.0-10.0
		TIN	1.93 mg/Kg	SL-196-SA5DN-SB-4.0-5.0
				SL-196-SA5DN-SB-9.0-10.0
				SL-197-SA5DN-SB-4.0-5.0
				SL-197-SA5DN-SB-9.0-10.0
				SL-203-SA5DN-SB-4.0-5.0
				SL-203-SA5DN-SB-9.0-10.0
P19608AB220656	7/16/2011 6:56:00 AM	TITANIUM	0.0760 mg/Kg	SL-181-SA5DN-SB-4.0-5.0
				SL-181-SA5DN-SB-9.0-10.0
				SL-182-SA5DN-SB-4.0-5.0
				SL-182-SA5DN-SB-9.0-10.0
				SL-184-SA5DN-SB-4.0-5.0
				SL-184-SA5DN-SB-9.0-10.0
				SL-187-SA5DN-SB-4.0-5.0
				SL-187-SA5DN-SB-9.0-10.0
				SL-196-SA5DN-SB-4.0-5.0
				SL-196-SA5DN-SB-9.0-10.0
				SL-197-SA5DN-SB-4.0-5.0
				SL-197-SA5DN-SB-9.0-10.0
				SL-203-SA5DN-SB-4.0-5.0
				SL-203-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	TIN	2.14 mg/Kg	2.14U mg/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18726AB220902A	7/7/2011 9:02:00 AM	ANTIMONY	0.112 mg/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.190 mg/Kg	0.190U mg/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.460 mg/Kg	0.460U mg/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.274 mg/Kg	0.274U mg/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.329 mg/Kg	0.329U mg/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.397 mg/Kg	0.397U mg/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.314 mg/Kg	0.314U mg/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.323 mg/Kg	0.323U mg/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.330 mg/Kg	0.330U mg/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.109 mg/Kg	0.109U mg/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.398 mg/Kg	0.398U mg/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.288 mg/Kg	0.288U mg/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.218 mg/Kg	0.218U mg/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.195 mg/Kg	0.195U mg/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.190 mg/Kg	0.190U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P86863AB320154A	7/8/2011 1:54:00 AM	EFH (C30-C40)	1.5 mg/Kg	SL-197-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-197-SA5DN-SB-4.0-5.0(REA2)	EFH (C30-C40)	1.8 mg/Kg	1.8U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB10B210829A	7/7/2011 8:29:00 AM	METHYLENE CHLORIDE	1.1 ug/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-197-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	10 ug/Kg	10U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC18B260749	7/13/2011 7:49:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	6.7 ug/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	20U ug/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.7 ug/Kg	21U ug/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	15 ug/Kg	20U ug/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	21U ug/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	21U ug/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.4 ug/Kg	21U ug/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	21U ug/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.6 ug/Kg	21U ug/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-197-SA5DN-SB-4.0-5.0MS SL-197-SA5DN-SB-4.0-5.0MSD (SL-197-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL	52	-	59.00-109.00	24 (20.00)	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-181-SA5DN-SB-4.0-5.0MS SL-181-SA5DN-SB-4.0-5.0MSD (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	- - - - - 141 -	129 177 138 140 143 222 156	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J(all detects) As, V, Zn, No Qual, >4x
SL-181-SA5DN-SB-4.0-5.0MS SL-181-SA5DN-SB-4.0-5.0MSD (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ANTIMONY CADMIUM	41 -	61 -	75.00-125.00 75.00-125.00	32 (20.00) 22 (20.00)	ANTIMONY CADMIUM	J(all detects) UJ(all non-detects)
SL-181-SA5DN-SB-4.0-5.0MSD (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	BARIUM	-	205	75.00-125.00	-	BARIUM	No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_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-181-SA5DN-SB-4.0-5.0MS **SL-181-SA5DN-SB-4.0-5.0MSD** (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ALUMINUM	1039	919	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-181-SA5DN-SB-4.0-5.0MS **SL-181-SA5DN-SB-4.0-5.0MSD** (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	CALCIUM IRON	-401 -2587	-494 -1781	75.00-125.00 75.00-125.00	- -	CALCIUM IRON	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-181-SA5DN-SB-4.0-5.0MS (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-197-SA5DN-SB-4.0-5.0MS (SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	FLUORIDE	60	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_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-181-SA5DN-SB-4.0-5.0MS **SL-181-SA5DN-SB-4.0-5.0MSD** (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	TITANIUM	252	319	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-181-SA5DN-SB-4.0-5.0DUP (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0)	FLUORIDE	23	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-181-SA5DN-SB-4.0-5.0DUP (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ANTIMONY SILVER	29 24	20.00 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-197-SA5DN-SB-4.0-5.0DUP (SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	FLUORIDE	44	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11891AQ241717A P11891AY241736A (SL-181-SA5DN -SB-4.0-5.0 SL -181-SA5DN -SB-9.0-10.0 SL -182-SA5DN -SB-4.0-5.0 SL -182-SA5DN -SB-9.0-10.0 SL -184-SA5DN -SB-4.0-5.0 SL -184-SA5DN -SB-9.0-10.0 SL -187-SA5DN -SB-4.0-5.0 SL -187-SA5DN -SB-9.0-10.0 SL -196-SA5DN -SB-4.0-5.0 SL -196-SA5DN -SB-9.0-10.0 SL -197-SA5DN -SB-4.0-5.0 SL -197-SA5DN -SB-9.0-10.0 SL -203-SA5DN -SB-4.0-5.0 SL -203-SA5DN -SB-9.0-10.0)	Aroclor 5442	121	126	36.00-106.00	-	Aroclor 5432, 5442, 5460	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P18726AQ220905A (SL-181-SA5DN -SB-4.0-5.0 SL -181-SA5DN -SB-9.0-10.0 SL -182-SA5DN -SB-4.0-5.0 SL -182-SA5DN -SB-9.0-10.0 SL -184-SA5DN -SB-4.0-5.0 SL -184-SA5DN -SB-9.0-10.0 SL -187-SA5DN -SB-4.0-5.0 SL -187-SA5DN -SB-9.0-10.0 SL -196-SA5DN -SB-4.0-5.0 SL -196-SA5DN -SB-9.0-10.0 SL -197-SA5DN -SB-4.0-5.0 SL -197-SA5DN -SB-9.0-10.0 SL -203-SA5DN -SB-4.0-5.0 SL -203-SA5DN -SB-9.0-10.0)	ANTIMONY	124	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19608AQ220659 (SL-181-SA5DN -SB-4.0-5.0 SL -181-SA5DN -SB-9.0-10.0 SL -182-SA5DN -SB-4.0-5.0 SL -182-SA5DN -SB-9.0-10.0 SL -184-SA5DN -SB-4.0-5.0 SL -184-SA5DN -SB-9.0-10.0 SL -187-SA5DN -SB-4.0-5.0 SL -187-SA5DN -SB-9.0-10.0 SL -196-SA5DN -SB-4.0-5.0 SL -196-SA5DN -SB-9.0-10.0 SL -197-SA5DN -SB-4.0-5.0 SL -197-SA5DN -SB-9.0-10.0 SL -203-SA5DN -SB-4.0-5.0 SL -203-SA5DN -SB-9.0-10.0)	TITANIUM	180	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.7	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	TIN	J	2.57	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.21	5.47	PQL	mg/Kg	
SL-181-SA5DN-SB-9.0-10.0	TIN	J	2.14	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.48	5.79	PQL	mg/Kg	
SL-182-SA5DN-SB-4.0-5.0	TIN	J	2.76	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.95	5.59	PQL	mg/Kg	
SL-182-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.62	5.79	PQL	mg/Kg	
SL-184-SA5DN-SB-4.0-5.0	TIN	J	2.47	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.75	5.60	PQL	mg/Kg	
SL-184-SA5DN-SB-9.0-10.0	TIN	J	2.66	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.15	5.67	PQL	mg/Kg	
SL-187-SA5DN-SB-4.0-5.0	SODIUM	J	106	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.59	11.1	PQL	mg/Kg	
	Zirconium	J	4.71	5.56	PQL	mg/Kg	
SL-187-SA5DN-SB-9.0-10.0	SODIUM	J	99.9	114	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	11.4	PQL	mg/Kg	
	Zirconium	J	4.55	5.72	PQL	mg/Kg	
SL-196-SA5DN-SB-4.0-5.0	TIN	J	2.81	11.1	PQL	mg/Kg	J (all detects)
SL-196-SA5DN-SB-9.0-10.0	SODIUM	J	112	114	PQL	mg/Kg	J (all detects)
	TIN	J	2.89	11.4	PQL	mg/Kg	
	Zirconium	J	5.25	5.72	PQL	mg/Kg	
SL-197-SA5DN-SB-4.0-5.0	TIN	J	2.61	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.00	5.82	PQL	mg/Kg	
SL-197-SA5DN-SB-9.0-10.0	TIN	J	2.80	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.34	5.79	PQL	mg/Kg	
SL-203-SA5DN-SB-4.0-5.0	TIN	J	2.51	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.20	5.75	PQL	mg/Kg	
SL-203-SA5DN-SB-9.0-10.0	TIN	J	2.73	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.31	5.56	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.190	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.446	PQL	mg/Kg	
	SILVER	J	0.0381	0.112	PQL	mg/Kg	
SL-181-SA5DN-SB-9.0-10.0	SELENIUM	J	0.270	0.468	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0476	0.117	PQL	mg/Kg	
SL-182-SA5DN-SB-4.0-5.0	SELENIUM	J	0.241	0.443	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SB-9.0-10.0	SELENIUM	J	0.210	0.463	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0687	0.116	PQL	mg/Kg	
SL-184-SA5DN-SB-4.0-5.0	SELENIUM	J	0.288	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0888	0.113	PQL	mg/Kg	
SL-184-SA5DN-SB-9.0-10.0	SELENIUM	J	0.124	0.449	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	SELENIUM	J	0.141	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0539	0.112	PQL	mg/Kg	
SL-187-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0827	0.467	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0786	0.117	PQL	mg/Kg	
SL-196-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.109	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.118	0.440	PQL	mg/Kg	
	SILVER	J	0.0604	0.110	PQL	mg/Kg	
SL-196-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0989	0.453	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	SELENIUM	J	0.148	0.461	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0502	0.115	PQL	mg/Kg	
SL-197-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.218	0.234	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0942	0.117	PQL	mg/Kg	
	SILVER	J	0.0682	0.117	PQL	mg/Kg	
SL-203-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.195	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.451	PQL	mg/Kg	
	SILVER	J	0.0459	0.113	PQL	mg/Kg	
SL-203-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.190	0.229	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0908	0.114	PQL	mg/Kg	
	SILVER	J	0.0183	0.114	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-182-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-184-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-184-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.54	1.2	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.88	1.2	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.63	1.2	PQL	mg/Kg	J (all detects)
SL-203-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-184-SA5DN-SB-9.0-10.0	MERCURY	J	0.0102	0.116	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-9.0-10.0	MERCURY	J	0.0174	0.112	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	MERCURY	J	0.0119	0.115	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA5DN-SB-4.0-5.0	EFH (C21-C30) ETHYLENE GLYCOL	J J	0.76 7.0	1.4 12	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.95	1.4	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.66	2.0	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.0	PQL	ug/Kg	J (all detects)
SL-182-SA5DN-SB-4.0-5.0	BENZENE TOLUENE	J J	0.17 0.12	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-184-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.4	PQL	ug/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.0	PQL	ug/Kg	J (all detects)
SL-196-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.4	PQL	ug/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.1	PQL	ug/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	TOLUENE	J	0.09	4.0	PQL	ug/Kg	J (all detects)
SL-203-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.4	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.3	2.0	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	2.0	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.5	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.7	21	PQL	ug/Kg	
	CHRYSENE	J	1.6	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	2.0	PQL	ug/Kg	
SL-182-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	20	PQL	ug/Kg	J (all detects)
SL-182-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-184-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	21	PQL	ug/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.61	1.9	PQL	ug/Kg	J (all detects)
SL-187-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	21	PQL	ug/Kg	
	FLUORANTHENE	J	0.90	1.9	PQL	ug/Kg	
SL-196-SA5DN-SB-4.0-5.0	PYRENE	J	0.80	1.9	PQL	ug/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	
SL-197-SA5DN-SB-9.0-10.0	ACENAPHTHYLENE	J	1.1	2.0	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.45	2.0	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.7	2.0	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	2.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.4	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	0.81	2.0	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.92	2.0	PQL	ug/Kg	
SL-203-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	21	PQL	ug/Kg	J (all detects)
SL-203-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)

LDC #: 26407N4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11

SDG #: DE192 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-181-SA5DN-SB-4.0-5.0	11	SL-197-SA5DN-SB-4.0-5.0	21		31	
2	SL-181-SA5DN-SB-9.0-10.0	12	SL-197-SA5DN-SB-9.0-10.0	22		32	
3	SL-182-SA5DN-SB-4.0-5.0	13	SL-203-SA5DN-SB-4.0-5.0	23		33	
4	SL-182-SA5DN-SB-9.0-10.0	14	SL-203-SA5DN-SB-9.0-10.0	24		34	
5	SL-184-SA5DN-SB-4.0-5.0	15	(W) MS	25		35	
6	SL-184-SA5DN-SB-9.0-10.0	16	MSD	26		36	
7	SL-187-SA5DN-SB-4.0-5.0	17	DUP	27		37	
8	SL-187-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-196-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-196-SA5DN-SB-9.0-10.0	20		30		40	

Notes: _____

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE192
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6333520BKG Matrix Spike Lab Sample ID: 6333520MS Matrix Spike Duplicate Lab Sample ID: 6333520MSD
% Solids for Sample: 88.7
Batch Id(s): P18708A, P18726A, P18711A, P19608A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum -		28039.2629		30381.1511		30090.0309		225.4791	223.2467	MG/KG	1039		919		1			20	P
Antimony	121	0.1901	B	0.7328		1.0100		1.3263	1.3395	MG/KG	41	N	61	N	32	*	75 - 125	20	MS
Arsenic -	75	11.4235		13.1264		14.2945		2.2106	2.2325	MG/KG	77		129		9			20	MS
Barium -	137	94.4557		102.7478		117.3831		11.0529	11.1623	MG/KG	75		205		13			20	MS
Beryllium	9	0.7852		1.6756		1.8396		0.8842	0.8930	MG/KG	101		118		9		75 - 125	20	MS
Boron		11.8606		240.7880		237.3090		225.4791	223.2467	MG/KG	102		101		1		84 - 115	20	P
Cadmium	111	0.2005		1.2870		1.5976		1.1053	1.1162	MG/KG	98		125		22	*	75 - 125	20	MS
Calcium -		11550.0049		9743.4679		9345.3905		450.9583	446.4933	MG/KG	-401		-494		4			20	P
Chromium	52	35.0051		48.0580		54.7847		11.0529	11.1623	MG/KG	118		177	N	13		75 - 125	20	MS
Cobalt	59	10.3854		70.5617		80.3242		55.2645	55.8117	MG/KG	109		125		13		75 - 125	20	MS
Copper	63	15.1942		27.2343		30.6071		11.0529	11.1623	MG/KG	109		138	N	12		75 - 125	20	MS
Iron -		33175.1896		30258.9797		31187.2314		112.7396	111.6233	MG/KG	-2587		-1781		3			20	P
Lead	208	7.8717		11.3535		12.5509		3.3159	3.3487	MG/KG	105		140	N	10		75 - 125	20	MS
Lithium		32.1713		148.6821		147.2937		112.7396	111.6233	MG/KG	103		103		1		82 - 114	20	P
Magnesium		7394.0752		7573.0846		7605.1057		225.4791	223.2467	MG/KG	79		95		0			20	P
Manganese		342.3003		386.5310		395.7014		56.3698	55.8117	MG/KG	78		96		2			20	P
Mercury		0.0079	U	0.1913		0.1848		0.1857	0.1812	MG/KG	103		102		3		65 - 135	20	CV
Molybdenum	98	0.4293		11.6940		13.7810		11.0529	11.1623	MG/KG	102		120		16		75 - 125	20	MS
Nickel	60	20.5074		33.0482		36.5232		11.0529	11.1623	MG/KG	113		143	N	10		75 - 125	20	MS
Phosphorus		281.4833		380.7914		380.1746		112.7396	111.6233	MG/KG	88		88		0		75 - 125	20	P
Potassium		3059.2660		4429.2818		4373.0340		1127.3957	1116.2334	MG/KG	122		118		1		75 - 125	20	P
Selenium	78	0.1485	B	2.3211		2.6365		2.2106	2.2325	MG/KG	98		111		13		75 - 125	20	MS
Silver	107	0.0381	B	11.7647		13.5221		11.0529	11.1623	MG/KG	106		121		14		75 - 125	20	MS
Sodium		226.8561		1331.5073		1314.8158		1127.3957	1116.2334	MG/KG	98		97		1		75 - 125	20	P
Strontium		36.3065		145.5242		145.1818		112.7396	111.6233	MG/KG	97		98		0		75 - 115	20	P
Thallium	203	0.3208		0.7520		0.8754		0.4421	0.4465	MG/KG	98		124		15		75 - 125	20	MS
Tin		2.5667	B	379.1263		373.6837		450.9583	446.4933	MG/KG	84		83		1		80 - 110	20	P
Titanium -		1254.5829		1533.3057		1607.5193		110.5290	110.5290	MG/KG	252		319		5			20	P
Vanadium -	51	66.5052		82.1009		91.2856		11.0529	11.1623	MG/KG	141		222		11			20	MS
Zinc -	66	73.0686		82.2115		90.5265		11.0529	11.1623	MG/KG	83		156		10			20	MS
Zirconium		5.2101	B	115.3179		114.4921		112.7396	111.6233	MG/KG	98		98		1		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE192
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6333520BKG
% Solids for Duplicate: 88.7
Batch ID(s): P18708A, P18726A, P18711A, P19608A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6333520DUP
% Solids for Sample: 88.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			28039.2629		26070.5214		7		P
Antimony	121	0.2	0.1901	B	0.2551		29		MS
Arsenic	75		11.4235		10.5378		8		MS
Barium	137		94.4557		94.2370		0		MS
Beryllium	9		0.7852		0.7324		7		MS
Boron		5.5	11.8606		10.9882		8		P
Cadmium	111	0.1	0.2005		0.2356		16		MS
Calcium			11550.0049		9428.2374		20		P
Chromium	52		35.0051		35.1482		0		MS
Cobalt	59		10.3854		9.5939		8		MS
Copper	63		15.1942		15.4917		2		MS
Iron			33175.1896		30361.6596		9		P
Lead	208		7.8717		7.8873		0		MS
Lithium			32.1713		32.2926		0		P
Magnesium	-		7394.0752		7258.3187		2		P
Manganese			342.3003		384.3962		12		P
Mercury			0.0079	U	0.0077	U			CV
Molybdenum	98	0.1	0.4293		0.4454		4		MS
Nickel	60		20.5074		20.4412		0		MS
Phosphorus			281.4833		279.0048		1		P
Potassium			3059.2660		2923.6128		5		P
Selenium	78		0.1485	B	0.1496	B	1		MS
Silver	107		0.0381	B	0.0298	B	24		MS
Sodium		109.5	226.8561		212.2864		7		P
Strontium			36.3065		33.5506		8		P
Thallium	203	0.1	0.3208		0.3300		3		MS
Tin			2.5667	B	2.5952	B	1		P
Titanium			1254.5829		1270.1627		1		P
Vanadium	51		66.5052		65.9858		1		MS
Zinc	66		73.0686		67.8427		7		MS
Zirconium			5.2101	B	4.9728	B	5		P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE192
Matrix: SOIL Level (low/med): LOW

J/05

Background Lab Sample ID: 6333520BKG Serial Dilution Lab Sample ID: 6333520L
Batch ID(s): P18708A, P18726A, P19608A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		256169.5100		234296.9000		9		P
Antimony	121	0.8515	B	1.8500	U	100		MS
Arsenic	75	51.1700		59.7500		17	E	MS
Barium	137	423.1000		495.8000		17	E	MS
Beryllium	9	3.5170		4.2660		21		MS
Boron		108.3600		137.7500	B	27		P
Cadmium	111	0.8981		1.1000	U	100		MS
Calcium		105522.0000		109968.1000		4		P
Chromium	52	156.8000		181.8000		16	E	MS
Cobalt	59	46.5200		55.1500		19	E	MS
Copper	63	68.0600		94.6500		39	E	MS
Iron		60618.3700		61182.7000		1		P
Lead	208	35.2600		42.5250		21	E	MS
Lithium		293.9200		292.1000		1		P
Magnesium		67553.0100		69395.8000		3		P
Manganese		3127.2900		3243.5000		4		P
Molybdenum	98	1.9230		2.8370		48		MS
Nickel	60	91.8600		108.8500		18	E	MS
Phosphorus		2571.6600		2654.3500		3		P
Potassium		27949.7600		28662.8000		3		P
Selenium	78	0.6650	B	1.4500	U	100		MS
Silver	107	0.1708	B	0.3550	U	100		MS
Sodium		2072.5800		2094.7500	B	1		P
Strontium		331.7000		334.3500		1		P
Thallium	203	1.4370		1.5015	B	4		MS
Tin		23.4500	B	30.3000	B	29		P
Titanium		11128.1500		11677.3000		5		P
Vanadium	51	297.9000		334.8000		12	E	MS
Zinc	66	327.3000		353.1000		8		MS
Zirconium		47.6000	B	73.7500	B	55		P

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

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

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

DE192 3585

SAMPLE DELIVERY GROUP

DE193

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-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3050B	6010B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3050B	6020	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3060A	7199	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3546	1625C	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8082	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8270C	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8270C SIM	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	5035	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	5035	8260B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	5035	8260B SIM	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	8330	8330A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	7471A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	9012B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0DU	P335826D271443A	DUP	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0DU	P335826D271918A	DUP	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R241137A	MS	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R241206A	MS	8330	8330A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R260200	MS	3550B	8270C SIM	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R261513	MS	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R261546	MS	3550B	8270C	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R270320A	MS	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R271506A	MS	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R320453A	MS	3550B	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R321937A	MS	3550B	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3050B	6010B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3050B	6020	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3060A	7199	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3546	1625C	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8082	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8270C	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8270C SIM	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	5035	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	5035	8260B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	5035	8260B SIM	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	8330	8330A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	7471A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	9012B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0D	P335827D270927A	DUP	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0M	P335827R241913A	MS	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0M	P335827R270928A	MS	METHOD	9012B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0M	P335827R320442A	MS	METHOD	8015B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3050B	6010B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3050B	6020	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3060A	7199	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3550B	8082	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3550B	8270C	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3550B	8270C SIM	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	5035	8260B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	5035	8260B SIM	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	METHOD	300.0	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	METHOD	314.0	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	METHOD	7471A	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3050B	6010B	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3050B	6020	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3060A	7199	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3550B	8082	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3550B	8270C	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3550B	8270C SIM	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	METHOD	300.0	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	METHOD	314.0	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	METHOD	7471A	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3050B	6010B	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3050B	6020	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3550B	8082	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3550B	8270C	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3550B	8270C SIM	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	5035	8260B	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	5035	8260B SIM	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	METHOD	300.0	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	METHOD	314.0	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	METHOD	7471A	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3050B	6010B	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3050B	6020	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3060A	7199	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3550B	8082	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3550B	8270C	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3550B	8270C SIM	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	METHOD	300.0	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	METHOD	314.0	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	METHOD	7471A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3050B	6010B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3050B	6020	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3060A	7199	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3546	1625C	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8082	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8270C	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	5035	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	5035	8260B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	5035	8260B SIM	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	8330	8330A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	300.0	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	314.0	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	7471A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	8315A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	9012B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3050B	6010B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3050B	6020	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3060A	7199	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3546	1625C	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8082	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8270C	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8270C SIM	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	5035	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	5035	8260B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	5035	8260B SIM	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	8330	8330A	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	300.0	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	7471A	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	8315A	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	9012B	III
05-Jul-2011	TB-070511	6335834	TB	5030B	8015M	III
05-Jul-2011	TB-070511	6335834	TB	5030B	8260B	III
05-Jul-2011	TB-070511	6335834	TB	5030B	8260B SIM	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 7:50:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-186-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 8:00:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 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	5.0		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 12:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 9:15:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 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
FLUORIDE	5.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-195-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 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	3.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-195-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 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	5.9		0.96	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.32	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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
SODIUM	111	J	6.75	MDL	113	PQL	mg/Kg	J	Z
TIN	3.56	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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
TIN	3.52	J	0.373	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.61	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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
TIN	3.39	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.96	J	0.370	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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
TIN	3.60	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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
TIN	3.75	J	0.386	MDL	12.1	PQL	mg/Kg	U	B

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0652	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0621	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0985	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.148	J	0.0831	MDL	0.225	PQL	mg/Kg	J	Z
SILVER	0.0407	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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	0.138	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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	0.217	J	0.0828	MDL	0.224	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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
SILVER	0.0538	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0996	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0718	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0883	J	0.0685	MDL	0.472	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0874	MDL	0.236	PQL	mg/Kg	J	Z
CADMIUM	0.104	J	0.0519	MDL	0.118	PQL	mg/Kg	J	Z
SILVER	0.112	J	0.0168	MDL	0.118	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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	0.200	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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	0.0814	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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	0.0806	J	0.0673	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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
SILVER	0.0765	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.90	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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
HEXAVALENT CHROMIUM	0.44	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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	0.45	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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
HEXAVALENT CHROMIUM	0.64	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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	0.61	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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	0.65	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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	0.103	J	0.0082	MDL	0.117	PQL	mg/Kg	J	Z

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.97	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.57	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

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

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.59	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z, L

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
HEXACHLOROETHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 8:00:00 AM ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-192-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 12:10:00 ***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	380	U	380	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-192-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 12:20:00 ***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	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-194-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 9:15:00 AM ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-194-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 9:20:00 AM ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-195-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 10:35:00 ***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	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-195-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 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
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 7:50:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.4	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 8:00:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.9	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 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
Di-n-butylphthalate	8.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 12:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	9.3	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 9:15:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.9	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.1	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 9:20:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	12	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.7	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	7.2	MDL	22	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.8	J	7.2	MDL	22	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 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
FORMALDEHYDE	690	U	690	MDL	1700	PQL	ug/Kg	UJ	Q

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.8	U	1.8	MDL	4.1	PQL	mg/Kg	UJ	Q

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	5.1		0.23	MDL	3.8	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.7		0.23	MDL	3.8	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.4		0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.3		0.24	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.8		0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE193

Method Blank Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18808CB220959	7/15/2011 9:59:00 AM	IRON MAGNESIUM PHOSPHORUS TIN	4.66 mg/Kg 0.590 mg/Kg 1.43 mg/Kg 1.64 mg/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-4.0-5.0(RES)	TIN	3.32 mg/Kg	3.32U mg/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	TIN	3.56 mg/Kg	3.56U mg/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	TIN	3.61 mg/Kg	3.61U mg/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	TIN	3.39 mg/Kg	3.39U mg/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	TIN	3.96 mg/Kg	3.96U mg/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	TIN	3.60 mg/Kg	3.60U mg/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	TIN	3.75 mg/Kg	3.75U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18826AB221213A	7/8/2011 12:13:00 PM	COPPER NICKEL VANADIUM	0.261 mg/Kg 0.103 mg/Kg 0.0237 mg/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB10B210829A	7/7/2011 8:29:00 AM	METHYLENE CHLORIDE	1.1 ug/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.1 ug/Kg	5.1U ug/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	4.7 ug/Kg	4.7U ug/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	4.4 ug/Kg	4.4U ug/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.3 ug/Kg	4.3U ug/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.8 ug/Kg	4.8U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC19B261910	7/13/2011 7:10:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	6.9 ug/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	21U ug/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	21U ug/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.3 ug/Kg	21U ug/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	21U ug/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	22U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8315A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-9.0-10.0MSD (SL-186-SA5DN-SB-9.0-10.0)	FORMALDEHYDE	-	78	80.00-120.00	-	FORMALDEHYDE	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MS SL-186-SA5DN-SB-4.0-5.0MSD (SL-186-SA5DN-SB-4.0-5.0)	m-Terphenyl	73	68	75.00-125.00	-	m-Terphenyl	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MSD (SL-186-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	51 (30.00)	2,4-DINITROPHENOL	J(all detects)
SL-186-SA5DN-SB-4.0-5.0MS	1,2-DICHLOROBENZENE	63	-	66.00-108.00	-	1,2-DICHLOROBENZENE	
SL-186-SA5DN-SB-4.0-	1,3-DICHLOROBENZENE	59	-	63.00-109.00	-	1,3-DICHLOROBENZENE	J(all detects)
5.0MSD	1,4-DICHLOROBENZENE	59	64	70.00-100.00	-	1,4-DICHLOROBENZENE	UJ(all non-detects)
(SL-186-SA5DN-SB-4.0-5.0)	HEXACHLOROETHANE	54	-	57.00-109.00	-	HEXACHLOROETHANE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MS SL-186-SA5DN-SB-4.0-5.0MSD (SL-186-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	121	122	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_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-186-SA5DN-SB-4.0-5.0MS (SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0)	FLUORIDE	38	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-186-SA5DN-SB-4.0-5.0DUP (SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0)	Nitrate-NO3	24	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11920AQ241737A (SL-186-SA5DN -SB-4.0-5.0 SL -186-SA5DN -SB-9.0-10.0 SL -192-SA5DN -SB-4.0-5.0 SL -192-SA5DN -SB-9.0-10.0 SL -194-SA5DN -SB-4.0-5.0 SL -194-SA5DN -SB-9.0-10.0 SL -195-SA5DN -SB-4.0-5.0)	AROCLOR 1016 AROCLOR 1260	123 154	- -	72.00-120.00 65.00-137.00	- -	AROCLOR 1016, 1221, 1232 AROCLOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LDLCSQ261317 (SL-186-SA5DN -SB-4.0-5.0 SL -186-SA5DN -SB-9.0-10.0 SL -192-SA5DN -SB-4.0-5.0 SL -192-SA5DN -SB-9.0-10.0 SL -194-SA5DN -SB-4.0-5.0 SL -194-SA5DN -SB-9.0-10.0 SL -195-SA5DN -SB-4.0-5.0 SL -195-SA5DN -SB-9.0-10.0)	2,4-DINITROPHENOL	34	-	37.00-120.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	TIN	J	3.32	11.3	PQL	mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	SODIUM TIN	J J	111 3.56	113 11.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-192-SA5DN-SB-4.0-5.0	TIN	J	3.52	11.6	PQL	mg/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	TIN	J	3.61	11.5	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	TIN	J	3.39	11.1	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	TIN	J	3.96	11.6	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	TIN	J	3.60	11.4	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	TIN	J	3.75	12.1	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.210 0.0621	0.449 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J J J	0.148 0.0985 0.0407	0.225 0.449 0.112	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-192-SA5DN-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J J J	0.217 0.138 0.0538	0.224 0.448 0.112	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	SELENIUM SILVER	J J	0.131 0.0996	0.459 0.115	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.114 0.0718	0.447 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	ANTIMONY CADMIUM SELENIUM SILVER	J J J J	0.206 0.104 0.0883 0.112	0.236 0.118 0.472 0.118	PQL PQL PQL PQL	mg/Kg mg/Kg mg/Kg mg/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.200 0.0814	0.451 0.113	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	SELENIUM SILVER	J J	0.0806 0.0765	0.464 0.116	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.90	1.2	PQL	mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-192-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.41	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-194-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.64	1.2	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.65	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA5DN-SB-9.0-10.0	MERCURY	J	0.0161	0.115	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	MERCURY	J	0.0220	0.115	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	MERCURY	J	0.103	0.117	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.97	1.4	PQL	mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.57	1.4	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.59	2.1	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-9.0-10.0	TOLUENE	J	0.08	3.8	PQL	ug/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	TOLUENE	J	0.10	3.9	PQL	ug/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	3.9	PQL	ug/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.2	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-186-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.4	21	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	21	PQL	ug/Kg	
SL-186-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	10	21	PQL	ug/Kg	
SL-192-SA5DN-SB-4.0-5.0	Di-n-butylphthalate	J	8.9	21	PQL	ug/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	Di-n-butylphthalate	J	9.3	21	PQL	ug/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.1	21	PQL	ug/Kg	
SL-194-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	
SL-195-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.2	21	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.7	21	PQL	ug/Kg	
SL-195-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	22	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.8	22	PQL	ug/Kg	

LDC #: 26407O4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11
SDG #: DE193 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OL
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-186-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-186-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-192-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-192-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-194-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-194-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-195-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-195-SA5DN-SB-9.0-10.0	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE194

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-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3050B	6010B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3050B	6020	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3060A	7199	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3546	1625C	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8015B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8082	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8270C	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8270C SIM	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	5035	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	5035	8260B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	5035	8260B SIM	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	8330	8330A	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	300.0	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	314.0	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	6850	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	7471A	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	8015B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	8315A	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	9012B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3050B	6010B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3050B	6020	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3060A	7199	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3546	1625C	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8082	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8270C	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8270C SIM	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	5035	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	5035	8260B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	5035	8260B SIM	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	8330	8330A	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	300.0	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	314.0	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	7471A	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	8015B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	8315A	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	9012B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3550B	8082	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3550B	8270C	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3550B	8270C SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	5035	8260B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	5035	8260B SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	METHOD	7471A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3550B	8082	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3550B	8270C	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3550B	8270C SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	5035	8260B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	5035	8260B SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	METHOD	7471A	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	METHOD	7471A	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3050B	6010B	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3050B	6020	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3060A	7199	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3550B	8082	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3550B	8270C	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3550B	8270C SIM	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	5035	8260B	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	5035	8260B SIM	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	METHOD	314.0	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	METHOD	7471A	III
06-Jul-2011	DUP-19-SA5DN-QC-070611DUP	P337097D272001B	DUP	METHOD	300.0	III
06-Jul-2011	DUP-19-SA5DN-QC-070611MS	P337097R272016B	MS	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3550B	8082	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3550B	8270C	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3550B	8270C SIM	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	METHOD	7471A	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3050B	6010B	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3050B	6020	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3060A	7199	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3550B	8082	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3550B	8270C	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3550B	8270C SIM	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	5035	8260B	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	5035	8260B SIM	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	METHOD	300.0	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	METHOD	314.0	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	METHOD	7471A	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3050B	6010B	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3060A	7199	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3550B	8082	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3550B	8270C	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3550B	8270C SIM	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	METHOD	300.0	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	METHOD	314.0	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	METHOD	7471A	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3050B	6010B	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3050B	6020	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3060A	7199	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3550B	8082	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3550B	8270C	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3550B	8270C SIM	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	5035	8260B	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	5035	8260B SIM	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	METHOD	300.0	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	METHOD	314.0	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	METHOD	7471A	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3050B	6010B	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3050B	6020	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3060A	7199	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3550B	8082	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3550B	8270C	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3550B	8270C SIM	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	300.0	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	6850	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	7471A	III
06-Jul-2011	TB-070611	6337098	TB	5030B	8015M	III
06-Jul-2011	TB-070611	6337098	TB	5030B	8260B	III
06-Jul-2011	TB-070611	6337098	TB	5030B	8260B SIM	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3050B	6010B	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3050B	6020	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3060A	7199	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3550B	8082	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3550B	8270C	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3550B	8270C SIM	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	5035	8260B	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	5035	8260B SIM	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	METHOD	300.0	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	METHOD	314.0	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	METHOD	7471A	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3050B	6010B	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3050B	6020	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3060A	7199	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3550B	8082	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3550B	8270C	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3550B	8270C SIM	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	METHOD	300.0	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	METHOD	314.0	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 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
FLUORIDE	3.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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	3.8		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 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
FLUORIDE	10.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.93	MDL	1.7	PQL	mg/Kg	J	Z, Q

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	14.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	4.3		0.93	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.1		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.2		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 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
SODIUM	108	J	6.82	MDL	115	PQL	mg/Kg	J	Z
TIN	3.45	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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
SODIUM	102	J	6.74	MDL	113	PQL	mg/Kg	J	Z
TIN	3.41	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 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
TIN	3.61	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-191-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 7:40:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	105	J	6.93	MDL	116	PQL	mg/Kg	J	Z
TIN	3.65	J	0.373	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-191-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 7:50:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.59	J	0.362	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-200-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 9:10:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	93.2	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.43	J	0.357	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-200-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 9:25:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.66	J	0.372	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-201-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 2:35:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	114	J	6.89	MDL	116	PQL	mg/Kg	J	Z
TIN	2.84	J	0.371	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-201-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 2:40:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.94	J	0.374	MDL	11.7	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	99.0	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.34	J	0.357	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.45	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.527		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.119	MDL	0.450	PQL	mg/Kg	J	E, A

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.230		0.0832	MDL	0.225	PQL	mg/Kg	J	Q
ARSENIC	7.06		0.0900	MDL	0.450	PQL	mg/Kg	J	E, A
BERYLLIUM	0.966		0.0180	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.359		0.0495	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	44.8		0.135	MDL	0.450	PQL	mg/Kg	J	E, A
COBALT	13.0		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	21.9		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E
LEAD	10.3		0.0115	MDL	0.225	PQL	mg/Kg	J	E, A
NICKEL	24.7		0.112	MDL	0.450	PQL	mg/Kg	J	Q, E, A
SILVER	0.0681	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	85.2		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	88.2		0.630	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.992		0.0449	MDL	0.280	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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
SELENIUM	0.233	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.489		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.119	MDL	0.449	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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	0.292		0.0830	MDL	0.224	PQL	mg/Kg	J	Q
ARSENIC	6.87		0.0898	MDL	0.449	PQL	mg/Kg	J	E, A
CADMIUM	0.280		0.0494	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	41.0		0.135	MDL	0.449	PQL	mg/Kg	J	E, A
COBALT	12.0		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 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
COPPER	18.8		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
LEAD	10.3		0.0114	MDL	0.224	PQL	mg/Kg	J	E, A
NICKEL	23.6		0.112	MDL	0.449	PQL	mg/Kg	J	Q, E, A
SILVER	0.0536	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	80.3		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	75.5		0.628	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	1.03		0.0455	MDL	0.285	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.275		0.0501	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 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	0.136	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 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	0.759		0.0569	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 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	147		0.121	MDL	0.455	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.299		0.0842	MDL	0.228	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.71		0.0911	MDL	0.455	PQL	mg/Kg	J	E, A
CHROMIUM	46.0		0.137	MDL	0.455	PQL	mg/Kg	J	E, A
COBALT	12.6		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	21.1		0.0911	MDL	0.455	PQL	mg/Kg	J	Q, E
LEAD	10.2		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	26.2		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E, A
SILVER	0.0717	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	88.4		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	81.6		0.637	MDL	3.41	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 7:40:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.218	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 7:40:00 AM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.672		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-191-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 7:40:00 AM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.121	MDL	0.457	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 7:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.289		0.0845	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	8.23		0.0913	MDL	0.457	PQL	mg/Kg	J	E, A
BERYLLIUM	1.30		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.331		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	55.2		0.137	MDL	0.457	PQL	mg/Kg	J	E, A
COBALT	16.3		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	25.2		0.0913	MDL	0.457	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.4		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	29.2		0.114	MDL	0.457	PQL	mg/Kg	J	Q, E, A
SILVER	0.0485	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	110		0.0251	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	94.3		0.639	MDL	3.42	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0675	MDL	0.465	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.486		0.0582	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.123	MDL	0.465	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.245		0.0861	MDL	0.233	PQL	mg/Kg	J	Q
ARSENIC	7.31		0.0931	MDL	0.465	PQL	mg/Kg	J	E, A
BERYLLIUM	1.20		0.0186	MDL	0.116	PQL	mg/Kg	J	Q
CADMIUM	0.168		0.0512	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	48.5		0.140	MDL	0.465	PQL	mg/Kg	J	E, A
COBALT	11.1		0.0233	MDL	0.116	PQL	mg/Kg	J	Q, E, A
COPPER	20.2		0.0931	MDL	0.465	PQL	mg/Kg	J	Q, E
LEAD	11.1		0.0119	MDL	0.233	PQL	mg/Kg	J	E, A
NICKEL	24.9		0.116	MDL	0.465	PQL	mg/Kg	J	Q, E, A
SILVER	0.0486	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z, Q
VANADIUM	92.4		0.0256	MDL	0.116	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	82.1		0.652	MDL	3.49	PQL	mg/Kg	J	E, A

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.243	J	0.0665	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.688		0.0574	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	180		0.122	MDL	0.459	PQL	mg/Kg	J	E, A

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0849	MDL	0.229	PQL	mg/Kg	J	Q
ARSENIC	9.25		0.0918	MDL	0.459	PQL	mg/Kg	J	E, A
BERYLLIUM	1.30		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	0.454		0.0505	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	56.4		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	17.1		0.0229	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	26.7		0.0918	MDL	0.459	PQL	mg/Kg	J	Q, E
LEAD	14.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, A
NICKEL	31.9		0.115	MDL	0.459	PQL	mg/Kg	J	Q, E, A
SILVER	0.0445	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
VANADIUM	108		0.0252	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	109		0.642	MDL	3.44	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.55		0.0570	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.121	MDL	0.456	PQL	mg/Kg	J	E, A

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.395		0.0844	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	10.0		0.0913	MDL	0.456	PQL	mg/Kg	J	E, A
BERYLLIUM	1.27		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.324		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	56.3		0.137	MDL	0.456	PQL	mg/Kg	J	E, A
COBALT	17.0		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	25.4		0.0913	MDL	0.456	PQL	mg/Kg	J	Q, E
LEAD	13.8		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	32.7		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E, A
SILVER	0.0454	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	97.3		0.0251	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	102		0.639	MDL	3.42	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.258	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 2:35:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.498		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-201-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 2:35:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	144		0.119	MDL	0.450	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 2:35:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.263		0.0832	MDL	0.225	PQL	mg/Kg	J	Q
ARSENIC	7.87		0.0900	MDL	0.450	PQL	mg/Kg	J	E, A
BERYLLIUM	1.10		0.0180	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.298		0.0495	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	47.2		0.135	MDL	0.450	PQL	mg/Kg	J	E, A
COBALT	14.9		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, A
COPPER	21.6		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E
LEAD	12.1		0.0115	MDL	0.225	PQL	mg/Kg	J	E, A
NICKEL	27.4		0.112	MDL	0.450	PQL	mg/Kg	J	Q, E, A
SILVER	0.0702	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	91.2		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	90.1		0.630	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0665	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.653		0.0573	MDL	0.115	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.122	MDL	0.459	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.0848	MDL	0.229	PQL	mg/Kg	J	Z, Q
ARSENIC	9.35		0.0917	MDL	0.459	PQL	mg/Kg	J	E, A
BERYLLIUM	1.25		0.0183	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	0.297		0.0504	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	56.5		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	15.2		0.0229	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	26.5		0.0917	MDL	0.459	PQL	mg/Kg	J	Q, E
LEAD	12.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, A
NICKEL	30.8		0.115	MDL	0.459	PQL	mg/Kg	J	Q, E, A
SILVER	0.0688	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
VANADIUM	108		0.0252	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	99.5		0.642	MDL	3.44	PQL	mg/Kg	J	E, A

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.613		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.120	MDL	0.454	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-205-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 1:20:00 PM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.310		0.0841	MDL	0.227	PQL	mg/Kg	J	Q
ARSENIC	8.47		0.0909	MDL	0.454	PQL	mg/Kg	J	E, A
BERYLLIUM	1.19		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.432		0.0500	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	54.0		0.136	MDL	0.454	PQL	mg/Kg	J	E, A
COBALT	16.6		0.0227	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	26.2		0.0909	MDL	0.454	PQL	mg/Kg	J	Q, E
LEAD	12.9		0.0116	MDL	0.227	PQL	mg/Kg	J	E, A
NICKEL	31.2		0.114	MDL	0.454	PQL	mg/Kg	J	Q, E, A
SILVER	0.0548	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	104		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	103		0.636	MDL	3.41	PQL	mg/Kg	J	E, A

Sample ID: SL-205-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 1:25:00 PM **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.361	J	0.0671	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 1:25:00 PM **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.832		0.0579	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 1:25:00 PM **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	193		0.123	MDL	0.463	PQL	mg/Kg	J	E, A

Sample ID: SL-205-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 1:25:00 PM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.553		0.0857	MDL	0.231	PQL	mg/Kg	J	Q
ARSENIC	11.6		0.0926	MDL	0.463	PQL	mg/Kg	J	E, A
BERYLLIUM	1.42		0.0185	MDL	0.116	PQL	mg/Kg	J	Q
CADMIUM	0.304		0.0509	MDL	0.116	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	66.6		0.139	MDL	0.463	PQL	mg/Kg	J	E, A
COBALT	20.8		0.0231	MDL	0.116	PQL	mg/Kg	J	Q, E, A
COPPER	29.8		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, E
LEAD	16.9		0.0118	MDL	0.231	PQL	mg/Kg	J	E, A
NICKEL	37.5		0.116	MDL	0.463	PQL	mg/Kg	J	Q, E, A
SILVER	0.0563	J	0.0164	MDL	0.116	PQL	mg/Kg	J	Z, Q
VANADIUM	124		0.0255	MDL	0.116	PQL	mg/Kg	J	E, A
ZINC	122		0.648	MDL	3.47	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 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
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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	0.61	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 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
HEXAVALENT CHROMIUM	0.44	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0104	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0092	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 6850 **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	4.8	J	2.4	MDL	5.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	19	MDL	390	PQL	ug/Kg	J	Z

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

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	FD

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 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
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-191-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 7:40:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-191-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 7:50:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.1	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.5	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 9:10:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	11	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.0	J	7.0	MDL	21	PQL	ug/Kg	J	Z, FD

Sample ID: SL-200-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 9:25:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 2:35:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	9.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.7	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	7.3	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: TB-070611 *Collected:* 7/6/2011 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
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	18		6.9	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.2		0.25	MDL	4.1	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.08	U	0.08	MDL	4.1	PQL	ug/Kg	UJ	FD

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	28		6.8	MDL	8.1	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.5	MDL	7.8	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.8	MDL	8.1	PQL	ug/Kg	U	B
CHLOROFORM	0.13	J	0.12	MDL	4.1	PQL	ug/Kg	J	Z
TOLUENE	0.16	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		7.0	MDL	8.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	14		0.25	MDL	4.2	PQL	ug/Kg	UJ	Q, B, FD
TOLUENE	0.11	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z, FD

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	25		7.4	MDL	8.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	12		0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	19		6.6	MDL	7.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	6.9		0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE194

Method Blank Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18808CB220959	7/15/2011 9:59:00 AM	IRON MAGNESIUM PHOSPHORUS TIN	4.66 mg/Kg 0.590 mg/Kg 1.43 mg/Kg 1.64 mg/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-19-SA5DN-QC-070611(RES)	TIN	3.45 mg/Kg	3.45U mg/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	TIN	3.61 mg/Kg	3.61U mg/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	TIN	3.65 mg/Kg	3.65U mg/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	TIN	3.59 mg/Kg	3.59U mg/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	TIN	3.43 mg/Kg	3.43U mg/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	TIN	3.66 mg/Kg	3.66U mg/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	TIN	3.34 mg/Kg	3.34U mg/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	TIN	3.45 mg/Kg	3.45U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18826AB221213A	7/8/2011 12:13:00 PM	COPPER NICKEL VANADIUM	0.261 mg/Kg 0.103 mg/Kg 0.0237 mg/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB14B211253A	7/12/2011 12:53:00 PM	ACETONE METHYLENE CHLORIDE	10 ug/Kg 1.8 ug/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-4.0-5.0 SL-205-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
DUP-19-SA5DN-QC-070611(RES)	ACETONE	18 ug/Kg	18U ug/Kg
DUP-19-SA5DN-QC-070611(RES)	METHYLENE CHLORIDE	7.2 ug/Kg	7.2U ug/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	ACETONE	28 ug/Kg	28U ug/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	14 ug/Kg	14U ug/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	ACETONE	25 ug/Kg	25U ug/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	ACETONE	19 ug/Kg	19U ug/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	6.9 ug/Kg	6.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB19B261828	7/15/2011 6:28:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	7.2 ug/Kg 8.5 ug/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-19-SA5DN-QC-070611(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	21U ug/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	21U ug/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	21U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	Di-n-butylphthalate	11 ug/Kg	21U ug/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.7 ug/Kg	21U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_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-200-SA5DN-SB-4.0-5.0MS	BERYLLIUM	-	126	75.00-125.00	-	BERYLLIUM	
SL-200-SA5DN-SB-4.0-	CADMIUM	-	135	75.00-125.00	-	CADMIUM	
5.0MSD	CHROMIUM	147	171	75.00-125.00	-	CHROMIUM	J (all detects)
(DUP-19-SA5DN-QC-070611	COBALT	131	139	75.00-125.00	-	COBALT	
SL-190-SA5DN-SB-4.0-5.0	COPPER	-	143	75.00-125.00	-	COPPER	
SL-190-SA5DN-SB-9.0-10.0	LEAD	-	130	75.00-125.00	-	LEAD	
SL-191-SA5DN-SB-4.0-5.0	NICKEL	-	129	75.00-125.00	-	NICKEL	
SL-191-SA5DN-SB-9.0-10.0	SILVER	-	130	75.00-125.00	-	SILVER	
SL-200-SA5DN-SB-4.0-5.0	VANADIUM	157	202	75.00-125.00	-	VANADIUM	Cr, Pb, V,
SL-200-SA5DN-SB-9.0-10.0							No Qual, >4x
SL-201-SA5DN-SB-4.0-5.0							
SL-201-SA5DN-SB-9.0-10.0							
SL-205-SA5DN-SB-4.0-5.0							
SL-205-SA5DN-SB-9.0-10.0)							
SL-200-SA5DN-SB-4.0-5.0MS	ANTIMONY	54	60	75.00-125.00	-	ANTIMONY	
SL-200-SA5DN-SB-4.0-	ZINC	57	-	75.00-125.00	-	ZINC	
5.0MSD							
(DUP-19-SA5DN-QC-070611							J(all detects)
SL-190-SA5DN-SB-4.0-5.0							UJ(all non-detects)
SL-190-SA5DN-SB-9.0-10.0							
SL-191-SA5DN-SB-4.0-5.0							
SL-191-SA5DN-SB-9.0-10.0							
SL-200-SA5DN-SB-4.0-5.0							
SL-200-SA5DN-SB-9.0-10.0							Zn,
SL-201-SA5DN-SB-4.0-5.0							No Qual, >4x
SL-201-SA5DN-SB-9.0-10.0							
SL-205-SA5DN-SB-4.0-5.0							
SL-205-SA5DN-SB-9.0-10.0)							
SL-200-SA5DN-SB-4.0-	MOLYBDENUM	-	131	75.00-125.00	-	MOLYBDENUM	
5.0MSD							
(DUP-19-SA5DN-QC-070611							
SL-190-SA5DN-SB-4.0-5.0							
SL-190-SA5DN-SB-9.0-10.0							
SL-191-SA5DN-SB-4.0-5.0							
SL-191-SA5DN-SB-9.0-10.0							J(all detects)
SL-200-SA5DN-SB-4.0-5.0							
SL-200-SA5DN-SB-9.0-10.0							
SL-201-SA5DN-SB-4.0-5.0							
SL-201-SA5DN-SB-9.0-10.0							
SL-205-SA5DN-SB-4.0-5.0							
SL-205-SA5DN-SB-9.0-10.0)							
SL-200-SA5DN-SB-4.0-5.0MS	BARIUM	45	-	75.00-125.00	-	BARIUM	
(DUP-19-SA5DN-QC-070611							
SL-190-SA5DN-SB-4.0-5.0							
SL-190-SA5DN-SB-9.0-10.0							
SL-191-SA5DN-SB-4.0-5.0							
SL-191-SA5DN-SB-9.0-10.0							No Qual, >4x
SL-200-SA5DN-SB-4.0-5.0							
SL-200-SA5DN-SB-9.0-10.0							
SL-201-SA5DN-SB-4.0-5.0							
SL-201-SA5DN-SB-9.0-10.0							
SL-205-SA5DN-SB-4.0-5.0							
SL-205-SA5DN-SB-9.0-10.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_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-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-4.0-5.0MSD (DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	2949 848 2047 332 161 339	2777 665 2643 278 164 344	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	No Qual, >4x
SL-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-4.0-5.0MSD (DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	MANGANESE	56	24	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-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-4.0-5.0MSD (SL-200-SA5DN-SB-4.0-5.0)	2-METHYLPHENOL	65	65	75.00-111.00	-	2-METHYLPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN-SB-4.0-5.0MS (SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	FLUORIDE Nitrate-NO3	45 78	- -	80.00-120.00 80.00-120.00	- -	FLUORIDE Nitrate-NO3	J(all detects) UJ(all non-detects)
DUP-19-SA5DN-QC-070611MS (DUP-19-SA5DN-QC-070611)	FLUORIDE	47	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN -SB-4.0-5.0MS SL-200-SA5DN -SB-4.0-5.0MSD (SL-200-SA5DN -SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	127	125	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN -SB-4.0-5.0MS SL-200-SA5DN -SB-4.0-5.0MSD (SL-200-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	191	250	61.00-141.00	-	METHYLENE CHLORIDE	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-200-SA5DN-SB-4.0-5.0DUP	ARSENIC	27	20.00	
(DUP-19-SA5DN-QC-070611	BARIUM	30	20.00	
SL-190-SA5DN-SB-4.0-5.0	CADMIUM	35	20.00	J (all detects) UJ (all non-detects)
SL-190-SA5DN-SB-9.0-10.0	CHROMIUM	24	20.00	
SL-191-SA5DN-SB-4.0-5.0	COBALT	33	20.00	
SL-191-SA5DN-SB-9.0-10.0	COPPER	24	20.00	
SL-200-SA5DN-SB-4.0-5.0	LEAD	26	20.00	
SL-200-SA5DN-SB-9.0-10.0	MOLYBDENUM	30	20.00	
SL-201-SA5DN-SB-4.0-5.0	NICKEL	30	20.00	Cd, Mo, Ag, Tl, No Qual, OK by Difference
SL-201-SA5DN-SB-9.0-10.0	SILVER	33	20.00	
SL-205-SA5DN-SB-4.0-5.0	THALLIUM	31	20.00	
SL-205-SA5DN-SB-9.0-10.0)	VANADIUM	26	20.00	
	ZINC	28	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y25Q211132A LCS1Y25Y211153A (TB-070611)	2-Chloro-1,1,1-trifluoroethane	73	73	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11920AQ241737A (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	AROCLOR 1016 AROCLOR 1260	123 154	- -	72.00-120.00 65.00-137.00	- -	AROCLOR 1016, 1221, 1232 AROCLOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LCLCSQ262348 (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	PENTACHLOROPHENOL	107	-	35.00-106.00	-	PENTACHLOROPHENOL	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P5LBLCSQ261900 (DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	136	-	55.00-118.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
MOISTURE	13.7	14.5	6		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
FLUORIDE	2.8	3.2	13	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
ALUMINUM	32200	31400	3	50.00	No Qualifiers Applied
CALCIUM	19900	24300	20	50.00	
IRON	33100	35400	7	50.00	
LITHIUM	28.3	27.4	3	50.00	
MAGNESIUM	7780	8190	5	50.00	
MANGANESE	443	417	6	50.00	
PHOSPHORUS	440	542	21	50.00	
POTASSIUM	6100	6020	1	50.00	
SODIUM	93.2	108	15	50.00	
STRONTIUM	43.8	62.2	35	50.00	
TIN	3.43	3.45	1	50.00	
TITANIUM	1570	1560	1	50.00	
Zirconium	6.38	7.93	22	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
ANTIMONY	0.337	0.230	38	50.00	No Qualifiers Applied
ARSENIC	9.25	7.06	27	50.00	
BARIUM	180	126	35	50.00	
BERYLLIUM	1.30	0.966	29	50.00	
CADMIUM	0.454	0.359	23	50.00	
CHROMIUM	56.4	44.8	23	50.00	
COBALT	17.1	13.0	27	50.00	
COPPER	26.7	21.9	20	50.00	
LEAD	14.3	10.3	33	50.00	
MOLYBDENUM	0.688	0.527	27	50.00	
NICKEL	31.9	24.7	25	50.00	
SELENIUM	0.243	0.221	9	50.00	
SILVER	0.0445	0.0681	42	50.00	
THALLIUM	0.529	0.348	41	50.00	
VANADIUM	108	85.2	24	50.00	
ZINC	109	88.2	21	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
HEXAVALENT CHROMIUM	0.58	0.66	13	50.00	No Qualifiers Applied

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
ACETONE	22	18	20	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	14	7.2	64	50.00	J(all detects)
TOLUENE	0.11	4.1 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
BIS(2-ETHYLHEXYL)PHTHALATE	14	13	7	50.00	No Qualifiers Applied
Di-n-octylphthalate	7.0	21 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
PH	7.88	7.90	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	SODIUM	J	108	115	PQL	mg/Kg	J (all detects)
	TIN	J	3.45	11.5	PQL	mg/Kg	
SL-190-SA5DN-SB-4.0-5.0	SODIUM	J	102	113	PQL	mg/Kg	J (all detects)
	TIN	J	3.41	11.3	PQL	mg/Kg	
SL-190-SA5DN-SB-9.0-10.0	TIN	J	3.61	11.4	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	SODIUM	J	105	116	PQL	mg/Kg	J (all detects)
	TIN	J	3.65	11.6	PQL	mg/Kg	
SL-191-SA5DN-SB-9.0-10.0	TIN	J	3.59	11.3	PQL	mg/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	SODIUM	J	93.2	111	PQL	mg/Kg	J (all detects)
	TIN	J	3.43	11.1	PQL	mg/Kg	
SL-200-SA5DN-SB-9.0-10.0	TIN	J	3.66	11.6	PQL	mg/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	SODIUM	J	114	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.84	11.6	PQL	mg/Kg	
SL-201-SA5DN-SB-9.0-10.0	TIN	J	2.94	11.7	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	SODIUM	J	99.0	111	PQL	mg/Kg	J (all detects)
	TIN	J	3.34	11.1	PQL	mg/Kg	
SL-205-SA5DN-SB-9.0-10.0	TIN	J	3.45	11.5	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	SELENIUM	J	0.221	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0681	0.112	PQL	mg/Kg	
SL-190-SA5DN-SB-4.0-5.0	SELENIUM	J	0.233	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0536	0.112	PQL	mg/Kg	
SL-190-SA5DN-SB-9.0-10.0	SELENIUM	J	0.136	0.455	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0717	0.114	PQL	mg/Kg	
SL-191-SA5DN-SB-4.0-5.0	SELENIUM	J	0.218	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0485	0.114	PQL	mg/Kg	
SL-191-SA5DN-SB-9.0-10.0	SELENIUM	J	0.160	0.465	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0486	0.116	PQL	mg/Kg	
SL-200-SA5DN-SB-4.0-5.0	SELENIUM	J	0.243	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0445	0.115	PQL	mg/Kg	
SL-200-SA5DN-SB-9.0-10.0	SELENIUM	J	0.192	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0454	0.114	PQL	mg/Kg	
SL-201-SA5DN-SB-4.0-5.0	SELENIUM	J	0.258	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0702	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.204	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.179	0.459	PQL	mg/Kg	
	SILVER	J	0.0688	0.115	PQL	mg/Kg	
SL-205-SA5DN-SB-4.0-5.0	SELENIUM	J	0.206	0.454	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0548	0.114	PQL	mg/Kg	
SL-205-SA5DN-SB-9.0-10.0	SELENIUM	J	0.361	0.463	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0563	0.116	PQL	mg/Kg	

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA5DN-SB-4.0-5.0	PERCHLORATE	J	4.8	5.8	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	HEXAVALENT CHROMIUM	J	0.66	1.2	PQL	mg/Kg	J (all detects)
SL-190-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-190-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.44	1.2	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.58	1.2	PQL	mg/Kg	J (all detects)
SL-200-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-201-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.2	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.72	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-9.0-10.0	MERCURY	J	0.0104	0.115	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	MERCURY	J	0.0092	0.115	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.111	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.1	PQL	ug/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	TOLUENE	J	0.08	3.9	PQL	ug/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	CHLOROFORM TOLUENE	J J	0.13 0.16	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.2	PQL	ug/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.4	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	390	PQL	ug/Kg	J (all detects)
SL-200-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	390	PQL	ug/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	390	PQL	ug/Kg	J (all detects)
SL-205-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-190-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	J (all detects)
SL-190-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	12 7.2	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	11 7.5	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate Di-n-octylphthalate	J J J	14 11 7.0	21 21 21	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-200-SA5DN-SB-9.0-10.0	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	13 9.5	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-201-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.7	21	PQL	ug/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	7.3	21	PQL	ug/Kg	J (all detects)

LDC #: 26277U4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE194 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MH
2nd Reviewer:

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

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

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

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

Validated Samples:

1	SL-190-SA5DN-SB-4.0-5.0	11	DUP-19-SA5DN-QC-070611	21		31	
2	SL-190-SA5DN-SB-9.0-10.0	12	SL-200-SA5DN-SB-4.0-5.0MS	22		32	
3	SL-191-SA5DN-SB-4.0-5.0	13	SL-200-SA5DN-SB-4.0-5.0MSD	23		33	
4	SL-191-SA5DN-SB-9.0-10.0	14	SL-200-SA5DN-SB-4.0-5.0DUP	24		34	
5	SL-200-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-200-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-201-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-201-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-205-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-205-SA5DN-SB-9.0-10.0	20		30		40	

Notes:

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE194
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6337088BKG Matrix Spike Lab Sample ID: 6337089MS Matrix Spike Duplicate Lab Sample ID: 6337090MSD
% Solids for Sample: 86.3
Batch Id(s): P18808C, P18826A, P18811B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		32180.4171		38947.3745		38489.5235		229.4552	227.2056	MG/KG	2949		2777		1			20	P
Antimony	121	0.3366		1.0643		1.1389		1.3370	1.3370	MG/KG	54	N	60	N	7		75 - 125	20	MS
Arsenic	75	9.2516		12.0242		11.6075		2.2284	2.2284	MG/KG	124		106		4			20	MS
Barium	137	180.0076		185.0655		192.2186		11.1418	11.1418	MG/KG	45		110		4			20	MS
Beryllium	9	1.2987		2.3331		2.4245		0.8913	0.8913	MG/KG	116		126	N	4		75 - 125	20	MS
Boron		0.4011	U	229.9921		226.1627		229.4552	227.2056	MG/KG	100		100		2		84 - 115	20	P
Cadmium	111	0.4539		1.7892		1.9565		1.1142	1.1142	MG/KG	120		135	N	9		75 - 125	20	MS
Calcium		19874.3504		23763.9136		22898.3391		458.9103	454.4112	MG/KG	848		665		4			20	P
Chromium	52	56.3542		72.7115		75.3855		11.1418	11.1418	MG/KG	147		171		4			20	MS
Cobalt	59	17.0646		89.8921		94.2597		55.7091	55.7091	MG/KG	131	N	139	N	5		75 - 125	20	MS
Copper	63	26.7315		39.5312		42.6954		11.1418	11.1418	MG/KG	115		143	N	8		75 - 125	20	MS
Iron		33077.9537		35426.9128		36080.4989		114.7276	113.6028	MG/KG	2047		2643		2			20	P
Lead	208	14.2744		17.9673		18.6291		3.3425	3.3425	MG/KG	110		130		4			20	MS
Lithium		28.3069		145.2795		143.2134		114.7276	113.6028	MG/KG	102		101		1		82 - 114	20	P
Magnesium		7778.3080		8540.7983		8410.7877		229.4552	227.2056	MG/KG	332		278		2			20	P
Manganese		442.7545		475.0295		456.6094		57.3638	56.8014	MG/KG	56		24		4			20	P
Mercury		0.0080	U	0.1754		0.1794		0.1761	0.1838	MG/KG	100		98		2		80 - 120	20	CV
Molybdenum	98	0.6881		14.4665		15.3356		11.1418	11.1418	MG/KG	124		131	N	6		75 - 125	20	MS
Nickel	60	31.9402		44.7455		46.3054		11.1418	11.1418	MG/KG	115		129	N	3		75 - 125	20	MS
Phosphorus		439.8097		565.2525		550.6839		114.7276	113.6028	MG/KG	109		98		3		75 - 125	20	P
Potassium		6101.7604		7954.1996		7963.2631		1147.2758	1136.0280	MG/KG	161		164		0			20	P
Selenium	78	0.2428	B	2.7788		2.9325		2.2284	2.2284	MG/KG	114		121		5		75 - 125	20	MS
Silver	107	0.0445	B	13.9317		14.5289		11.1418	11.1418	MG/KG	125		130	N	4		75 - 125	20	MS
Sodium		93.2358	B	1232.3773		1217.9754		1147.2758	1136.0280	MG/KG	99		99		1		75 - 125	20	P
Strontium		43.7773		159.4794		157.0491		114.7276	113.6028	MG/KG	101		100		2		75 - 115	20	P
Thallium	203	0.5289		1.0647		1.0656		0.4457	0.4457	MG/KG	120		120		0		75 - 125	20	MS
Tin		3.4295	B	420.3114		407.2013		458.9103	454.4112	MG/KG	91		89		3		80 - 110	20	P
Titanium		1569.8391		1958.3803		1960.9888		114.7276	113.6028	MG/KG	339		344		0			20	P
Vanadium	51	108.3487		125.8356		130.8717		11.1418	11.1418	MG/KG	157		202		4			20	MS
Zinc	66	109.4272		115.7412		120.5098		11.1418	11.1418	MG/KG	57		99		4			20	MS
Zirconium		6.3787		100.5105		101.8665		114.7276	113.6028	MG/KG	82		84		1		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE194
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6337088BKG
% Solids for Duplicate: 86.2
Batch ID(s): P18808C, P18826A, P18811B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6337091DUP
% Solids for Sample: 86.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			32180.4171		31746.8316		1		P
Antimony	121	0.2	0.3366		0.2833		17		MS
Arsenic	75		9.2516		7.0200		27	*	MS
Barium	137		180.0076		132.8173		30	*	MS
Beryllium	9		1.2987		1.0627		20		MS
Boron			0.4011	U	0.4090	U			P
Cadmium	111	0.1	0.4539		0.3179		35	*	MS
Calcium			19874.3504		18897.3372		5		P
Chromium	52		56.3542		44.0774		24	*	MS
Cobalt	59		17.0646		12.2017		33	*	MS
Copper	63		26.7315		21.0150		24	*	MS
Iron			33077.9537		34383.9150		4		P
Lead	208		14.2744		10.9642		26	*	MS
Lithium			28.3069		27.5918		3		P
Magnesium			7778.3080		7933.0027		2		P
Manganese			442.7545		461.9646		4		P
Mercury			0.0080	U	0.0082	U			CV
Molybdenum	98	0.1	0.6881		0.5105		30	*	MS
Nickel	60		31.9402		23.5125		30	*	MS
Phosphorus			439.8097		481.4350		9		P
Potassium			6101.7604		6222.2332		2		P
Selenium	78		0.2428	B	0.2585	B	6		MS
Silver	107		0.0445	B	0.0623	B	33		MS
Sodium			93.2358	B	95.0992	B	2		P
Strontium			43.7773		44.2483		1		P
Thallium	203	0.1	0.5289		0.3868		31	*	MS
Tin			3.4295	B	3.3774	B	2		P
Titanium			1569.8391		1530.9340		3		P
Vanadium	51		108.3487		83.6999		26	*	MS
Zinc	66		109.4272		82.7549		28	*	MS
Zirconium		5.6	6.3787		7.6591		18		P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE194
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6337088BKG Serial Dilution Lab Sample ID: 6337088L
Batch ID(s): P18808C, P18826A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		288825.6800		298925.4500		3		P
Antimony	121	1.4670		1.8500	U	100		MS
Arsenic	75	40.3200		33.1650		18	E	MS
Barium	137	784.5000		652.5000		17	E	MS
Beryllium	9	5.6600		5.1650		9		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	1.9780		1.8305	B	7		MS
Calcium		178376.2700		188725.3000		6		P
Chromium	52	245.6000		206.3000		16	E	MS
Cobalt	59	74.3700		63.9000		14	E	MS
Copper	63	116.5000		105.9500		9		MS
Iron		59376.2500		61865.6500		4		P
Lead	208	62.2100		52.0500		16	E	MS
Lithium		254.0600		270.9000		7		P
Magnesium		69811.8700		73788.1000		6		P
Manganese		3973.8100		4163.6000		5		P
Molybdenum	98	2.9990		3.6235		21		MS
Nickel	60	139.2000		119.6000		14	E	MS
Phosphorus		3947.3800		3896.5000		1		P
Potassium		54764.5200		57215.1000		4		P
Selenium	78	1.0580	B	1.4500	U	100		MS
Silver	107	0.1939	B	0.3550	U	100		MS
Sodium		836.8100	B	889.7500	B	6		P
Strontium		392.9100		402.7000		2		P
Thallium	203	2.3050		2.0835	B	10		MS
Tin		30.7800	B	26.7500	B	13		P
Titanium		14089.6200		14559.5000		3		P
Vanadium	51	472.2000		387.1000		18	E	MS
Zinc	66	476.9000		410.4000		14	E	MS
Zirconium		57.2500		100.3000	B	75		P

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

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

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

DE194 3481

SAMPLE DELIVERY GROUP

DE195

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	TB-070711	6338344	TB	5030B	8260B	III
07-Jul-2011	TB-070711	6338344	TB	5030B	8260B SIM	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3050B	6010B	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3050B	6020	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3060A	7199	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3550B	8082	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3550B	8270C	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3550B	8270C SIM	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	5035	8260B	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	5035	8260B SIM	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	METHOD	300.0	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	METHOD	314.0	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	METHOD	7471A	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3050B	6010B	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3050B	6020	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3060A	7199	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3550B	8082	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3550B	8270C	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3550B	8270C SIM	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	METHOD	300.0	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	METHOD	314.0	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3550B	8270C	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3550B	8270C SIM	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	METHOD	314.0	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3550B	8082	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3550B	8270C	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3550B	8270C SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	5035	8260B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	5035	8260B SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	METHOD	314.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3550B	8082	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3550B	8270C	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3550B	8270C SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	5035	8260B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	5035	8260B SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	METHOD	314.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	METHOD	7471A	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3050B	6010B	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3050B	6020	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3060A	7199	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3550B	8082	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3550B	8270C	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3550B	8270C SIM	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	5035	8260B	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	5035	8260B SIM	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	METHOD	300.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	METHOD	314.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	METHOD	7471A	III
07-Jul-2011	DUP20-SA5DN-QC-070711DUP	P338343D270006B	DUP	METHOD	300.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711DUP	P338343D271817A	DUP	METHOD	314.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711MS	P338343R270050B	MS	METHOD	300.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711MS	P338343R271903A	MS	METHOD	314.0	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3050B	6010B	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3050B	6020	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3060A	7199	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3550B	8270C	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3550B	8270C SIM	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	5035	8260B	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	5035	8260B SIM	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	METHOD	300.0	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	METHOD	314.0	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	METHOD	7471A	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3050B	6010B	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3050B	6020	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3060A	7199	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3550B	8082	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3550B	8270C	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3550B	8270C SIM	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	METHOD	300.0	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	METHOD	314.0	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	METHOD	7471A	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3050B	6010B	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3050B	6020	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3060A	7199	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3550B	8082	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3550B	8270C	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3550B	8270C SIM	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	METHOD	300.0	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	METHOD	314.0	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	METHOD	7471A	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3050B	6020	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3060A	7199	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3550B	8082	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3550B	8270C	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3550B	8270C SIM	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	5035	8260B	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	5035	8260B SIM	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	METHOD	300.0	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	METHOD	314.0	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	METHOD	7471A	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3005A	6010B	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3020A	6020	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3510C	8082	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3510C	8270C	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3510C	8270C SIM	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	5030B	8260B	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	5030B	8260B SIM	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	Gen Prep	300.0	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	Gen Prep	314.0	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	Gen Prep	7199	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	METHOD	7470A	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3050B	6010B	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3050B	6020	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3060A	7199	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3550B	8082	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3550B	8270C SIM	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	5035	8260B	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	5035	8260B SIM	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	METHOD	300.0	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	METHOD	314.0	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	METHOD	7471A	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3050B	6010B	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3050B	6020	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3060A	7199	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3550B	8082	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3550B	8270C	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3550B	8270C SIM	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	METHOD	300.0	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	METHOD	314.0	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	8.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.9		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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	4.7		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 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	6.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.96	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0085	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0768	J	0.0705	MDL	0.200	PQL	mg/L	J	Z
IRON	0.0221	J	0.0141	MDL	0.200	PQL	mg/L	J	Z
STRONTIUM	0.00055	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.978	J	0.411	MDL	5.71	PQL	mg/Kg	U	F
SODIUM	91.4	J	6.80	MDL	114	PQL	mg/Kg	J	Z
TIN	2.84	J	0.366	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 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
TIN	3.37	J	0.359	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-164-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 8:10:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.37	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-166-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 9:35:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.867	J	0.411	MDL	5.70	PQL	mg/Kg	U	F
SODIUM	96.6	J	6.79	MDL	114	PQL	mg/Kg	J	Z
TIN	3.45	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 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
SODIUM	94.8	J	6.77	MDL	114	PQL	mg/Kg	J	Z
TIN	3.02	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-167-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 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
TIN	3.54	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-167-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 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
TIN	3.24	J	0.360	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-168-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 1:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.51	J	0.363	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	109	J	6.70	MDL	113	PQL	mg/Kg	J	Z
TIN	3.05	J	0.360	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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
TIN	3.03	J	0.382	MDL	11.9	PQL	mg/Kg	U	B

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.68	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.44	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.248	J	0.0669	MDL	0.462	PQL	mg/Kg	J	Z

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	181		0.122	MDL	0.462	PQL	mg/Kg	J	A

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.333		0.0854	MDL	0.231	PQL	mg/Kg	J	Q
ARSENIC	10.7		0.0923	MDL	0.462	PQL	mg/Kg	J	A
BERYLLIUM	1.11		0.0185	MDL	0.115	PQL	mg/Kg	J	Q, E
CADMIUM	0.564		0.0508	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	42.6		0.138	MDL	0.462	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 **Collected:** 7/7/2011 9:40:00 AM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	25.4		0.0923	MDL	0.462	PQL	mg/Kg	J	Q, A
LEAD	13.1		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A
NICKEL	31.3		0.115	MDL	0.462	PQL	mg/Kg	J	Q
SILVER	0.0669	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.472		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
ZINC	95.5		0.646	MDL	3.46	PQL	mg/Kg	J	A

Sample ID: SL-164-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 8:05:00 AM **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 8:05:00 AM **Analysis Type:** REA3 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.303	MDL	1.14	PQL	mg/Kg	J	A

Sample ID: SL-164-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 8:05:00 AM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.371		0.0846	MDL	0.229	PQL	mg/Kg	J	Q
ARSENIC	14.6		0.0915	MDL	0.457	PQL	mg/Kg	J	A
BERYLLIUM	1.41		0.0183	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.299		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	46.1		0.137	MDL	0.457	PQL	mg/Kg	J	Q, Q
COPPER	24.0		0.0915	MDL	0.457	PQL	mg/Kg	J	Q, A
LEAD	14.5		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, A
NICKEL	36.7		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.103	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.544		0.0343	MDL	0.114	PQL	mg/Kg	J	Q
ZINC	99.4		0.640	MDL	3.43	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 8:10:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 8:10:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	174		0.118	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-164-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 8:10:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.294		0.0826	MDL	0.223	PQL	mg/Kg	J	Q
ARSENIC	14.4		0.0893	MDL	0.447	PQL	mg/Kg	J	A
BERYLLIUM	1.31		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.294		0.0491	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	39.0		0.134	MDL	0.447	PQL	mg/Kg	J	Q, Q
COPPER	20.9		0.0893	MDL	0.447	PQL	mg/Kg	J	Q, A
LEAD	12.0		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	32.2		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0810	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.445		0.0335	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	81.4		0.625	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-166-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 9:35:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.263	J	0.0649	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 9:35:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.119	MDL	0.447	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 9:35:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.311		0.0828	MDL	0.224	PQL	mg/Kg	J	Q
ARSENIC	9.85		0.0895	MDL	0.447	PQL	mg/Kg	J	A
BERYLLIUM	1.06		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.451		0.0492	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	39.1		0.134	MDL	0.447	PQL	mg/Kg	J	Q, Q
COPPER	20.3		0.0895	MDL	0.447	PQL	mg/Kg	J	Q, A
LEAD	11.4		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	26.7		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0582	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.420		0.0336	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	81.5		0.626	MDL	3.36	PQL	mg/Kg	J	A

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0673	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.123	MDL	0.464	PQL	mg/Kg	J	A

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.196	J	0.0858	MDL	0.232	PQL	mg/Kg	J	Z, Q
ARSENIC	13.3		0.0928	MDL	0.464	PQL	mg/Kg	J	A
BERYLLIUM	1.19		0.0186	MDL	0.116	PQL	mg/Kg	J	Q, E
CADMIUM	0.363		0.0510	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	41.3		0.139	MDL	0.464	PQL	mg/Kg	J	Q, Q
COPPER	21.3		0.0928	MDL	0.464	PQL	mg/Kg	J	Q, A
LEAD	12.2		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	31.1		0.116	MDL	0.464	PQL	mg/Kg	J	Q
SILVER	0.0550	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.447		0.0348	MDL	0.116	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	76.9		0.650	MDL	3.48	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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	0.226	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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
BARIUM	164		0.122	MDL	0.459	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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	0.317		0.0850	MDL	0.230	PQL	mg/Kg	J	Q
ARSENIC	12.8		0.0918	MDL	0.459	PQL	mg/Kg	J	A
BERYLLIUM	1.14		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E
CADMIUM	0.323		0.0505	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	44.6		0.138	MDL	0.459	PQL	mg/Kg	J	Q, Q
COPPER	22.4		0.0918	MDL	0.459	PQL	mg/Kg	J	Q, A
LEAD	12.1		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, A
NICKEL	30.8		0.115	MDL	0.459	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.457		0.0344	MDL	0.115	PQL	mg/Kg	J	Q
ZINC	96.9		0.643	MDL	3.44	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 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	0.130	J	0.0646	MDL	0.446	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 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	168		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 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	0.206	J	0.0824	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0891	MDL	0.446	PQL	mg/Kg	J	A
BERYLLIUM	0.974		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.426		0.0490	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	39.2		0.134	MDL	0.446	PQL	mg/Kg	J	Q, Q
COPPER	19.6		0.0891	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	11.0		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	28.1		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0555	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.434		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	80.9		0.624	MDL	3.34	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0671	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	171		0.123	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208	J	0.0857	MDL	0.231	PQL	mg/Kg	J	Z, Q
ARSENIC	9.26		0.0926	MDL	0.463	PQL	mg/Kg	J	A
BERYLLIUM	1.02		0.0185	MDL	0.116	PQL	mg/Kg	J	Q, E
CADMIUM	0.371		0.0509	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	40.8		0.139	MDL	0.463	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-168-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 1:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	22.2		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, A
LEAD	11.6		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A
NICKEL	30.0		0.116	MDL	0.463	PQL	mg/Kg	J	Q
SILVER	0.0584	J	0.0164	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.397		0.0347	MDL	0.116	PQL	mg/Kg	J	Q
ZINC	87.0		0.648	MDL	3.47	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 1:15:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0975	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 1:15:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	162		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 1:15:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0825	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	9.88		0.0892	MDL	0.446	PQL	mg/Kg	J	A
BERYLLIUM	0.941		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.367		0.0490	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	34.6		0.134	MDL	0.446	PQL	mg/Kg	J	Q, Q
COPPER	20.7		0.0892	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	10.7		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	30.5		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0634	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.416		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	85.7		0.624	MDL	3.34	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-169-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 2:30:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0692	MDL	0.477	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 2:30:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	187		0.126	MDL	0.477	PQL	mg/Kg	J	A

Sample ID: SL-169-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 2:30:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.304		0.0883	MDL	0.239	PQL	mg/Kg	J	Q
ARSENIC	11.2		0.0954	MDL	0.477	PQL	mg/Kg	J	A
BERYLLIUM	1.22		0.0191	MDL	0.119	PQL	mg/Kg	J	Q, E
CADMIUM	0.455		0.0525	MDL	0.119	PQL	mg/Kg	J	Q
CHROMIUM	46.8		0.143	MDL	0.477	PQL	mg/Kg	J	Q, Q
COPPER	27.1		0.0954	MDL	0.477	PQL	mg/Kg	J	Q, A
LEAD	15.9		0.0122	MDL	0.239	PQL	mg/Kg	J	Q, A
NICKEL	34.5		0.119	MDL	0.477	PQL	mg/Kg	J	Q
SILVER	0.0561	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z, Q
THALLIUM	0.460		0.0358	MDL	0.119	PQL	mg/Kg	J	Q
ZINC	107		0.668	MDL	3.58	PQL	mg/Kg	J	A

Sample ID: SL-169-SA5DN-SB-7.5-8.5 ***Collected:*** 7/7/2011 2:35:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.117	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-169-SA5DN-SB-7.5-8.5 ***Collected:*** 7/7/2011 2:35:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	5.69		0.0886	MDL	0.443	PQL	mg/Kg	J	A
BERYLLIUM	0.710		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.308		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	26.0		0.133	MDL	0.443	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.4		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, A
LEAD	8.14		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A
NICKEL	18.1		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0680	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.282		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	55.1		0.620	MDL	3.32	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 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
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.97	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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
HEXAVALENT CHROMIUM	0.51	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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	0.0130	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	2	U	2	MDL	5	PQL	ug/L	UJ	L, E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 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
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.20	J	0.051	MDL	1.0	PQL	ug/L	U	B
Di-n-butylphthalate	0.093	J	0.051	MDL	1.0	PQL	ug/L	U	B

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

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.8	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	26		6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.1	MDL	21	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.88	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.9	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	0.76	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.87	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.92	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.88	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	7.2	MDL	21	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L
METHYLENE CHLORIDE	3	J	2	MDL	5	PQL	ug/L	J	Z

Sample ID: TB-070711 *Collected:* 7/7/2011 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
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	18		7.6	MDL	9.0	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	19		6.6	MDL	7.9	PQL	ug/Kg	U	B
CHLOROFORM	0.14	J	0.12	MDL	4.0	PQL	ug/Kg	J	Z
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	17		7.2	MDL	8.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	33		0.26	MDL	4.3	PQL	ug/Kg	J	Q
TOLUENE	0.1	J	0.09	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	17		7.2	MDL	8.6	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.6	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	16		7.1	MDL	8.4	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.7	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	19		7.4	MDL	8.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	13		0.27	MDL	4.4	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE195

Method Blank Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19648BB220643	7/19/2011 6:43:00 AM	BORON STRONTIUM	0.0043 mg/L 0.00029 mg/L	EB21-SA5DN-SB-070711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB21-SA5DN-SB-070711(REA2)	BORON	0.0085 mg/L	0.0085U mg/L
EB21-SA5DN-SB-070711(REA2)	STRONTIUM	0.00055 mg/L	0.00055U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19308CB220729	7/14/2011 7:29:00 AM	ALUMINUM CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	14.1 mg/Kg 8.22 mg/Kg 3.41 mg/Kg 0.618 mg/Kg 1.43 mg/Kg 0.0460 mg/Kg 1.60 mg/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP20-SA5DN-QC-070711(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	TIN	3.45 mg/Kg	3.45U mg/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	TIN	3.54 mg/Kg	3.54U mg/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	TIN	3.24 mg/Kg	3.24U mg/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	TIN	3.51 mg/Kg	3.51U mg/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19326AB220958A	7/14/2011 9:58:00 AM	COPPER	0.148 mg/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5
P19326AB221412A	7/13/2011 2:12:00 PM	VANADIUM	0.0226 mg/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB14B211253A	7/12/2011 12:53:00 PM	ACETONE METHYLENE CHLORIDE	10 ug/Kg 1.8 ug/Kg	SL-164-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
DUP20-SA5DN-QC-070711(RES)	ACETONE	18 ug/Kg	18U ug/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	ACETONE	19 ug/Kg	19U ug/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	ACETONE	17 ug/Kg	17U ug/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	ACETONE	17 ug/Kg	17U ug/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.6 ug/Kg	4.3U ug/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	ACETONE	16 ug/Kg	16U ug/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.7 ug/Kg	4.2U ug/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	ACETONE	19 ug/Kg	19U ug/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	13 ug/Kg	13U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC19B261858	7/13/2011 6:58:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Diethylphthalate Di-n-butylphthalate	0.17 ug/L 0.070 ug/L 0.057 ug/L	EB21-SA5DN-SB-070711

Method Blank Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB21-SA5DN-SB-070711(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.20 ug/L	1.0U ug/L
EB21-SA5DN-SB-070711(RES)	Di-n-butylphthalate	0.093 ug/L	1.0U ug/L

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD19B260648	7/18/2011 6:48:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	8.4 ug/Kg 8.0 ug/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-164-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	21U ug/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	26 ug/Kg	26U ug/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	21U ug/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	21U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_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-166-SA5DN-SB-4.0-5.0MS (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	CADMIUM COPPER NICKEL SILVER THALLIUM	128 141 146 126 127	- - - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	CADMIUM COPPER NICKEL SILVER THALLIUM	J (all detects)
SL-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	ANTIMONY ARSENIC BERYLLIUM CHROMIUM LEAD VANADIUM ZINC	50 133 - 129 - 127 173	39 49 60 70 66 71 34	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	- - 23 (20.00) - - - -	ANTIMONY ARSENIC BERYLLIUM CHROMIUM LEAD VANADIUM ZINC	J(all detects) UJ(all non-detects) As, V, Zn, No Qual, >4x
SL-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	BARIUM	229	-28	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-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	ALUMINUM IRON MAGNESIUM POTASSIUM	1626 318 195 154	2866 1899 400 186	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_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-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	CALCIUM	-606	-1203	75.00-125.00	-	CALCIUM	No Qual, >4x
SL-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	TITANIUM	445	499	75.00-125.00	-	TITANIUM	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-166-SA5DN-SB-4.0-5.0MSD (SL-166-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	-	127	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA5DN-SB-4.0-5.0MS (SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	FLUORIDE	46	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
DUP20-SA5DN-QC-070711MS (DUP20-SA5DN-QC-070711)	FLUORIDE	48	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**

Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-166-SA5DN -SB-4.0-5.0MS	HEXACHLOROBUTADIENE	-	-	10.00-155.00	42 (30.00)	HEXACHLOROBUTADIENE	J(all detects)
SL-166-SA5DN -SB-4.0-5.0MSD	METHYLENE CHLORIDE	173	175	61.00-141.00	-	METHYLENE CHLORIDE	
(SL-166-SA5DN -SB-4.0-5.0)	N-BUTYLBENZENE	-	-	30.00-146.00	35 (30.00)	N-BUTYLBENZENE	
	P-ISOPROPYLTOLUENE	-	-	29.00-152.00	31 (30.00)	P-ISOPROPYLTOLUENE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-166-SA5DN-SB-4.0-5.0DUP (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	SELENIUM	29	20.00	No Qual OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-166-SA5DN-SB-4.0-5.0DUP (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	HEXAVALENT CHROMIUM	108	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WCLCSQ261931 (EB21 -SA5DN -SB-070711)	ACENAPHTHENE	112	-	74.00-109.00	-	ACENAPHTHENE	J (all detects)
	PYRENE	123	-	69.00-118.00	-	PYRENE	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WCLCSY261655 (EB21 -SA5DN -SB-070711)	3,3'-DICHLOROBENZIDINE	-	46	49.00-111.00	44 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)
	BENZOIC ACID	-	-	10.00-69.00	43 (30.00)	BENZOIC ACID	

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y25Q211132A LCS1Y25Y211153A (EB21 -SA5DN -SB-070711 TB -070711)	2-Chloro-1,1,1-trifluoroethane	73	73	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19308CQ220733 (DUP20 -SA5DN -QC-070711 SL -164-SA5DN -SB-4.0-5.0 SL -164-SA5DN -SB-9.0-10.0 SL -166-SA5DN -SB-4.0-5.0 SL -166-SA5DN -SB-9.0-10.0 SL -167-SA5DN -SB-4.0-5.0 SL -167-SA5DN -SB-9.0-10.0 SL -168-SA5DN -SB-4.0-5.0 SL -168-SA5DN -SB-9.0-10.0 SL -169-SA5DN -SB-4.0-5.0 SL -169-SA5DN -SB-7.5-8.5)	ALUMINUM	153	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
	IRON	140	-	80.00-120.00	-	IRON	
	MAGNESIUM	132	-	80.00-120.00	-	MAGNESIUM	
	POTASSIUM	124	-	80.00-120.00	-	POTASSIUM	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LALCSQ261541 (DUP20 -SA5DN -QC-070711 SL -164-SA5DN -SB-4.0-5.0 SL -164-SA5DN -SB-9.0-10.0 SL -166-SA5DN -SB-4.0-5.0 SL -166-SA5DN -SB-9.0-10.0 SL -167-SA5DN -SB-4.0-5.0 SL -167-SA5DN -SB-9.0-10.0 SL -168-SA5DN -SB-4.0-5.0 SL -168-SA5DN -SB-9.0-10.0 SL -169-SA5DN -SB-4.0-5.0 SL -169-SA5DN -SB-7.5-8.5)	2,4-DINITROPHENOL	35	-	37.00-120.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19608BQ221000 (DUP20 -SA5DN -QC-070711 SL -164-SA5DN -SB-4.0-5.0 SL -164-SA5DN -SB-9.0-10.0 SL -166-SA5DN -SB-4.0-5.0 SL -166-SA5DN -SB-9.0-10.0 SL -167-SA5DN -SB-4.0-5.0 SL -167-SA5DN -SB-9.0-10.0 SL -168-SA5DN -SB-4.0-5.0 SL -168-SA5DN -SB-9.0-10.0 SL -169-SA5DN -SB-4.0-5.0 SL -169-SA5DN -SB-7.5-8.5)	TITANIUM	157	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
MOISTURE	13.2	14.2	7		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
FLUORIDE	3.6	3.3	9	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
ALUMINUM	33500	32200	4	50.00	No Qualifiers Applied
BORON	0.867	0.978	12	50.00	
CALCIUM	37100	25200	38	50.00	
IRON	34100	33700	1	50.00	
LITHIUM	31.7	30.4	4	50.00	
MAGNESIUM	8040	8130	1	50.00	
MANGANESE	419	435	4	50.00	
PHOSPHORUS	548	644	16	50.00	
POTASSIUM	4540	5010	10	50.00	
SODIUM	96.6	91.4	6	50.00	
STRONTIUM	58.6	49.4	17	50.00	
TIN	3.45	2.84	19	50.00	
TITANIUM	1060	941	12	50.00	
Zirconium	7.87	7.10	10	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
ANTIMONY	0.311	0.333	7	50.00	No Qualifiers Applied
ARSENIC	9.85	10.7	8	50.00	
BARIUM	167	181	8	50.00	
BERYLLIUM	1.06	1.11	5	50.00	
CADMIUM	0.451	0.564	22	50.00	
CHROMIUM	39.1	42.6	9	50.00	
COBALT	12.1	13.6	12	50.00	
COPPER	20.3	25.4	22	50.00	
LEAD	11.4	13.1	14	50.00	
MOLYBDENUM	0.616	0.751	20	50.00	
NICKEL	26.7	31.3	16	50.00	
SELENIUM	0.263	0.248	6	50.00	
SILVER	0.0582	0.0669	14	50.00	
THALLIUM	0.420	0.472	12	50.00	
VANADIUM	73.1	81.1	10	50.00	
ZINC	81.5	95.5	16	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
HEXAVALENT CHROMIUM	0.39	0.46	16	50.00	No Qualifiers Applied

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
ACETONE	17	18	6	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	33	34	3	50.00	
TOLUENE	0.1	0.10	0	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
PH	8.42	8.34	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	BORON	J	0.0085	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0768	0.200	PQL	mg/L	
	IRON	J	0.0221	0.200	PQL	mg/L	
	STRONTIUM	J	0.00055	0.0050	PQL	mg/L	

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	METHYLENE CHLORIDE	J	3	5	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.20	1.0	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.093	1.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	BORON	J	0.978	5.71	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.4	114	PQL	mg/Kg	
	TIN	J	2.84	11.4	PQL	mg/Kg	
SL-164-SA5DN-SB-4.0-5.0	TIN	J	3.37	11.2	PQL	mg/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	TIN	J	3.37	11.2	PQL	mg/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	BORON	J	0.867	5.70	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.6	114	PQL	mg/Kg	
	TIN	J	3.45	11.4	PQL	mg/Kg	
SL-166-SA5DN-SB-9.0-10.0	SODIUM	J	94.8	114	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	11.4	PQL	mg/Kg	
SL-167-SA5DN-SB-4.0-5.0	TIN	J	3.54	11.4	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	TIN	J	3.24	11.2	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	TIN	J	3.51	11.4	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	SODIUM	J	109	113	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.3	PQL	mg/Kg	
SL-169-SA5DN-SB-4.0-5.0	TIN	J	3.03	11.9	PQL	mg/Kg	J (all detects)
SL-169-SA5DN-SB-7.5-8.5	TIN	J	2.68	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.44	5.59	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	SELENIUM SILVER	J J	0.248 0.0669	0.462 0.115	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-164-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.207 0.103	0.457 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	SELENIUM SILVER	J J	0.140 0.0810	0.447 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.263 0.0582	0.447 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-166-SA5DN-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J J J	0.196 0.121 0.0550	0.232 0.464 0.116	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.226 0.0350	0.459 0.115	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J J J	0.206 0.130 0.0555	0.223 0.446 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J J J	0.208 0.113 0.0584	0.231 0.463 0.116	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J J J	0.167 0.0975 0.0634	0.223 0.446 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-169-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.145 0.0561	0.477 0.119	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-169-SA5DN-SB-7.5-8.5	ANTIMONY SILVER	J J	0.169 0.0680	0.221 0.111	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	HEXAVALENT CHROMIUM	J	0.46	1.2	PQL	mg/Kg	J (all detects)
SL-164-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-166-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.40	1.2	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.41	1.2	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.97	1.2	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-169-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-169-SA5DN-SB-7.5-8.5	HEXAVALENT CHROMIUM	J	0.53	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA5DN-SB-9.0-10.0	MERCURY	J	0.0080	0.106	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	MERCURY	J	0.0130	0.116	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	TOLUENE	J	0.10	4.5	PQL	ug/Kg	J (all detects)
SL-164-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.14 0.09	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.3	PQL	ug/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.6	4.3	PQL	ug/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.7	4.2	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE FLUORANTHENE PHENANTHRENE PYRENE	J J J J J J	0.88 17 0.76 0.87 0.92 0.88	1.9 21 1.9 1.9 1.9 1.9	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-169-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	21	PQL	ug/Kg	J (all detects)

LDC #: 26277V4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11
SDG #: DE195 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No final.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, As, Ba, Ca, Fe, Mg, K, Ti, V, Zn >4X.
VII.	Duplicate Sample Analysis	N A	Se <5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Cu, Pb, Zn.
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates		
XV	Field Blanks	SW	EB=15

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-164-SA5DN-SB-4.0-5.0	11	DUP20-SA5DN-AC-070711	21		31	
2	SL-164-SA5DN-SB-9.0-10.0	12	SL-166-SA5DN-SB-4.0-5.0MS	22		32	
3	SL-166-SA5DN-SB-4.0-5.0	13	SL-166-SA5DN-SB-4.0-5.0MSD	23		33	
4	SL-166-SA5DN-SB-9.0-10.0	14	SL-166-SA5DN-SB-4.0-5.0DUP	24		34	
5	SL-167-SA5DN-SB-4.0-5.0	15	EB21-SA5DN-SB-070711	25		35	
6	SL-167-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-168-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-168-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-169-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-169-SA5DN-SB-7.5-8.5	20		30		40	

Notes:

LDC #: 26277V4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: L
2nd Reviewer: A

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

(Y) N N/A Were field blanks identified in this SDG?
(Y) N N/A Were target analytes detected in the field blanks?
Blank units: mg/L **Associated sample units:** mg/Kg
Sampling date: 7/7/11 Soil factor applied 100X
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil (F)

Analyte	Blank ID	Sample Identification											
	15	Action Level	3	11									
B	0.0085	4.25	0.87	0.98									
Ca	0.0768	38.4											
Fe	0.0221	11.05											
Sr	0.00055	0.275											

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE195
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6338332BKG Matrix Spike Lab Sample ID: 6338333MS Matrix Spike Duplicate Lab Sample ID: 6338334MSD
% Solids for Sample: 86.8
Batch Id(s): P19308C, P19326A, P19311B, P19608B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		33472.3354		37146.2162		40010.0242		225.8968	228.1334	MG/KG	1626		2866		7			20	P
Antimony	121	0.3109		0.9931		0.8394		1.3688	1.3554	MG/KG	50	N	39	N	17		75 - 125	20	MS
Arsenic	75	9.8541		12.8918		10.9695		2.2813	2.2590	MG/KG	133		49		16			20	MS
Barium	137	166.5026		192.6587		163.3234		11.4067	11.2948	MG/KG	229		-28		16			20	MS
Beryllium	9	1.0610		2.0208		1.6030		0.9125	0.9036	MG/KG	105		60	N	23	*	75 - 125	20	MS
Boron		0.8669	B	231.4155		235.6310		225.8968	228.1334	MG/KG	102		103		2		84 - 115	20	P
Cadmium	111	0.4514		1.9136		1.5905		1.1407	1.1295	MG/KG	128	N	101		18		75 - 125	20	MS
Calcium		37119.8168		34383.7061		31631.1140		451.7936	456.2668	MG/KG	-606		-1203		8			20	P
Chromium	52	39.0587		53.7710		46.9639		11.4067	11.2948	MG/KG	129	N	70	N	14		75 - 125	20	MS
Cobalt	59	12.1136		81.2839		68.2660		57.0334	56.4742	MG/KG	121		99		17		75 - 125	20	MS
Copper	63	20.2787		36.4101		31.9192		11.4067	11.2948	MG/KG	141	N	103		13		75 - 125	20	MS
Iron		34136.9428		34496.3518		36303.2692		112.9484	114.0667	MG/KG	318		1899		5			20	P
Lead	208	11.3932		15.6089		13.6329		3.4220	3.3885	MG/KG	123		66	N	14		75 - 125	20	MS
Lithium		31.7162		147.0453		150.9547		112.9484	114.0667	MG/KG	102		105		3		82 - 114	20	P
Magnesium		8043.3271		8484.2268		8955.0611		225.8968	228.1334	MG/KG	195		400		5			20	P
Manganese		419.3548		473.1284		490.6693		56.4742	57.0334	MG/KG	95		125		4			20	P
Mercury		0.0081	U	0.1900		0.1844		0.1863	0.1866	MG/KG	102		99		3		65 - 135	20	CV
Molybdenum	98	0.6161		14.5367		12.6502		11.4067	11.2948	MG/KG	122		107		14		75 - 125	20	MS
Nickel	60	26.6878		43.3453		37.0923		11.4067	11.2948	MG/KG	146	N	92		16		75 - 125	20	MS
Phosphorus		548.4658		663.3223		657.0858		112.9484	114.0667	MG/KG	102		95		1			20	P
Potassium		4544.9092		6289.8437		6663.7872		1129.4841	1140.6671	MG/KG	154		186	N	6			20	P
Selenium	78	0.2631	B	2.6463		2.2861		2.2813	2.2590	MG/KG	104		90		15		75 - 125	20	MS
Silver	107	0.0582	B	14.4659		12.2029		11.4067	11.2948	MG/KG	126	N	108		17		75 - 125	20	MS
Sodium		96.6213	B	1221.0671		1235.0344		1129.4841	1140.6671	MG/KG	100		100		1		75 - 125	20	P
Strontium		58.6246		167.0801		169.8145		112.9484	114.0667	MG/KG	96		97		2		75 - 115	20	P
Thallium	203	0.4197		0.9988		0.8345		0.4563	0.4518	MG/KG	127	N	92		18		75 - 125	20	MS
Tin		3.4460	B	414.8550		421.2871		451.7936	456.2668	MG/KG	91		92		2		80 - 110	20	P
Titanium		1062.8059		1560.0499		1620.7709		111.8518	111.8518	MG/KG	445		499		4			20	P
Vanadium	51	73.1287		87.5804		81.0970		11.4067	11.2948	MG/KG	127		71		8			20	MS
Zinc	66	81.5176		101.2228		85.3890		11.4067	11.2948	MG/KG	173		34		17			20	MS
Zirconium		7.8683		109.7633		112.4150		112.9484	114.0667	MG/KG	90		92		2		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE195
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6338332BKG Serial Dilution Lab Sample ID: 6338332L
Batch ID(s): P19308C, P19326A, P19608B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminium		293445.2700		300538.4000		2		P
Antimony	121	1.3900		1.8500	U	100		MS
Arsenic	75	44.0500		37.3700		15	E	MS
Barium	137	744.3000		630.0000		15	E	MS
Beryllium	9	4.7430		4.0845		14		MS
Boron		7.6000	B	18.0000	U	100		P
Cadmium	111	2.0180		1.2890	B	36		MS
Calcium		325422.0100		333421.3000		2		P
Chromium	52	174.6000		179.2000		3		MS
Cobalt	59	54.1500		51.5000		5		MS
Copper	63	90.6500		80.5500		11	E	MS
Iron		59854.3500		61191.0000		2		P
Lead	208	50.9300		43.1400		15	E	MS
Lithium		278.0500		280.8500		1		P
Magnesium		70514.2400		72202.5500		2		P
Manganese		3676.4000		3851.3000		5		P
Molybdenum	98	2.7540		2.1280	B	23		MS
Nickel	60	119.3000		107.4500		10		MS
Phosphorus		4808.2900		4681.8000		3		P
Potassium		39844.3100		40197.5500		1		P
Selenium	78	1.1760	B	1.4500	U	100		MS
Silver	107	0.2602	B	0.3550	U	100		MS
Sodium		847.0600	B	753.0000	B	11		P
Strontium		513.9500		524.5000		2		P
Thallium	203	1.8760		1.5180	B	19		MS
Tin		30.2100	B	30.7500	B	2		P
Titanium		9501.9100		9752.8000		3		P
Vanadium	51	326.9000		331.1500		1		MS
Zinc	66	364.4000		324.9000		11	E	MS
Zirconium		68.9800		89.3500	B	30		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: DE195 2962
U= Below MDL
B= Below LOQ

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

SAMPLE DELIVERY GROUP

DE196

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-Jul-2011	TB-070811	6339515	TB	5030B	8260B	III
08-Jul-2011	TB-070811	6339515	TB	5030B	8260B SIM	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3050B	6010B	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3060A	7199	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3550B	8082	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3550B	8270C	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3550B	8270C SIM	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	5035	8260B	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	5035	8260B SIM	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	METHOD	314.0	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	METHOD	7471A	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221225A	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221225B	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221225D	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221320C	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D270148A	DUP	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228A	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228B	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228C	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228D	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R261732	MS	3550B	8270C	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R270203A	MS	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3050B	6010B	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3060A	7199	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3550B	8082	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3550B	8270C	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3550B	8270C SIM	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	METHOD	314.0	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	METHOD	7471A	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0M	P339506R262135	MS	3550B	8270C SIM	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3050B	6010B	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3050B	6020	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3060A	7199	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3550B	8082	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3550B	8270C	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3550B	8270C SIM	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	5035	8260B	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	5035	8260B SIM	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	METHOD	300.0	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	METHOD	314.0	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	METHOD	7471A	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	3510C	8015B	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	3510C	8015M	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	3520C	1625C	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	5030B	8015M	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	8330	8330A	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	Gen Prep	300.0	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	Gen Prep	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	Gen Prep	8015M	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	METHOD	8315A	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	METHOD	9012B	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3050B	6010B	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3050B	6020	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3060A	7199	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3550B	8082	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3550B	8270C	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3550B	8270C SIM	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	METHOD	300.0	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	METHOD	314.0	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3050B	6010B	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3050B	6020	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3060A	7199	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3550B	8082	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3550B	8270C	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3550B	8270C SIM	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	5035	8260B	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	5035	8260B SIM	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	METHOD	300.0	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	METHOD	314.0	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3050B	6010B	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3050B	6020	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3550B	8082	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3550B	8270C	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3550B	8270C SIM	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	METHOD	300.0	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	METHOD	314.0	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0D	P339510D221903	DUP	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0M	P339510R221904	MS	METHOD	7471A	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3050B	6010B	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3050B	6020	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3550B	8082	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3550B	8270C	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3550B	8270C SIM	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	5035	8260B	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	5035	8260B SIM	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	METHOD	300.0	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	METHOD	314.0	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	METHOD	7471A	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0DU	P339507D271520A	DUP	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0MS	P339507R241754A	MS	3550B	8082	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0MS	P339507R271446A	MS	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3050B	6010B	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3050B	6020	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3550B	8082	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3550B	8270C	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3550B	8270C SIM	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	METHOD	300.0	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	METHOD	314.0	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	METHOD	7471A	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0D	P339508D220511	DUP	3050B	6010B	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0M	P339508R220516	MS	3050B	6010B	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3050B	6010B	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3050B	6020	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3060A	7199	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3550B	8082	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3550B	8270C	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3550B	8270C SIM	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	5035	8260B	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	5035	8260B SIM	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	METHOD	300.0	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	METHOD	314.0	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	METHOD	7471A	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3050B	6010B	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3050B	6020	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3060A	7199	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3550B	8082	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3550B	8270C	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3550B	8270C SIM	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	METHOD	300.0	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	METHOD	7471A	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0D	P339514D270348B	DUP	METHOD	314.0	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0M	P339514R270411B	MS	METHOD	314.0	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
FLUORIDE	4.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 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	2.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
FLUORIDE	4.6		0.92	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.60	J	0.412	MDL	5.73	PQL	mg/Kg	J	Z
MANGANESE	374		0.0412	MDL	0.573	PQL	mg/Kg	J	E
PHOSPHORUS	363		0.401	MDL	11.5	PQL	mg/Kg	J	Q
TIN	2.78	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
MANGANESE	410		0.0408	MDL	0.567	PQL	mg/Kg	J	E
PHOSPHORUS	485		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.82	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.47	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
MANGANESE	391		0.0395	MDL	0.549	PQL	mg/Kg	J	E
PHOSPHORUS	377		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.45	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.28	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
MANGANESE	261		0.0398	MDL	0.553	PQL	mg/Kg	J	E
PHOSPHORUS	247		0.387	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.88	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.07	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.53	J	0.402	MDL	5.58	PQL	mg/Kg	J	Z
MANGANESE	378		0.0402	MDL	0.558	PQL	mg/Kg	J	E
PHOSPHORUS	466		0.391	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	104	J	6.64	MDL	112	PQL	mg/Kg	J	Z
TIN	2.84	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-157-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.75	J	0.419	MDL	5.82	PQL	mg/Kg	J	Z
MANGANESE	307		0.0419	MDL	0.582	PQL	mg/Kg	J	E
PHOSPHORUS	279		0.408	MDL	11.6	PQL	mg/Kg	J	Q
TIN	2.96	J	0.373	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 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	0.392	MDL	5.45	PQL	mg/Kg	J	Z
MANGANESE	360		0.0392	MDL	0.545	PQL	mg/Kg	J	E
PHOSPHORUS	407		0.381	MDL	10.9	PQL	mg/Kg	J	Q
SODIUM	98.1	J	6.48	MDL	109	PQL	mg/Kg	J	Z
TIN	2.57	J	0.349	MDL	10.9	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
BORON	3.88	J	0.403	MDL	5.60	PQL	mg/Kg	J	Z
MANGANESE	240		0.0403	MDL	0.560	PQL	mg/Kg	J	E
PHOSPHORUS	202		0.392	MDL	11.2	PQL	mg/Kg	J	Q
TIN	3.09	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.14	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 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
BORON	5.35	J	0.399	MDL	5.55	PQL	mg/Kg	J	Z
MANGANESE	373		0.0399	MDL	0.555	PQL	mg/Kg	J	E
PHOSPHORUS	407		0.388	MDL	11.1	PQL	mg/Kg	J	Q
SODIUM	105	J	6.60	MDL	111	PQL	mg/Kg	J	Z
TIN	2.50	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.69	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
MANGANESE	325		0.0398	MDL	0.553	PQL	mg/Kg	J	E
PHOSPHORUS	206		0.387	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.74	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0645	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.118	MDL	0.445	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-155-SA5DN-SB-4.0-5.0** ***Collected:*** **7/8/2011 8:45:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0823	MDL	0.222	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.67		0.0890	MDL	0.445	PQL	mg/Kg	J	Q
CHROMIUM	36.0		0.133	MDL	0.445	PQL	mg/Kg	J	Q, A
COBALT	10.5		0.0222	MDL	0.111	PQL	mg/Kg	J	A
COPPER	15.3		0.0890	MDL	0.445	PQL	mg/Kg	J	A
LEAD	8.00		0.0113	MDL	0.222	PQL	mg/Kg	J	A
NICKEL	26.5		0.111	MDL	0.445	PQL	mg/Kg	J	A
SILVER	0.0460	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	59.4		0.0245	MDL	0.111	PQL	mg/Kg	J	A
ZINC	71.8		0.623	MDL	3.34	PQL	mg/Kg	J	A

Sample ID: **SL-155-SA5DN-SB-9.0-10.0** ***Collected:*** **7/8/2011 8:50:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.124	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: **SL-155-SA5DN-SB-9.0-10.0** ***Collected:*** **7/8/2011 8:50:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0864	MDL	0.234	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.95		0.0934	MDL	0.467	PQL	mg/Kg	J	Q
CHROMIUM	33.1		0.140	MDL	0.467	PQL	mg/Kg	J	Q, A
COBALT	9.48		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	15.3		0.0934	MDL	0.467	PQL	mg/Kg	J	A
LEAD	7.91		0.0119	MDL	0.234	PQL	mg/Kg	J	A
NICKEL	23.2		0.117	MDL	0.467	PQL	mg/Kg	J	A
SILVER	0.0565	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	57.3		0.0257	MDL	0.117	PQL	mg/Kg	J	A
ZINC	74.5		0.654	MDL	3.50	PQL	mg/Kg	J	A

Sample ID: **SL-156-SA5DN-SB-4.0-5.0** ***Collected:*** **7/8/2011 1:40:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 1:40:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.120	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 1:40:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.196	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.13		0.0904	MDL	0.452	PQL	mg/Kg	J	Q
CHROMIUM	40.4		0.136	MDL	0.452	PQL	mg/Kg	J	Q, A
COBALT	11.0		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	13.7		0.0904	MDL	0.452	PQL	mg/Kg	J	A
LEAD	8.23		0.0115	MDL	0.226	PQL	mg/Kg	J	A
NICKEL	35.9		0.113	MDL	0.452	PQL	mg/Kg	J	A
SILVER	0.0407	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	58.3		0.0248	MDL	0.113	PQL	mg/Kg	J	A
ZINC	69.6		0.633	MDL	3.39	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0851	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.118	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.264		0.0826	MDL	0.223	PQL	mg/Kg	J	Q, E
ARSENIC	7.46		0.0893	MDL	0.447	PQL	mg/Kg	J	Q
CHROMIUM	36.8		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	9.54		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	15.3		0.0893	MDL	0.447	PQL	mg/Kg	J	A
LEAD	8.54		0.0114	MDL	0.223	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	28.1		0.112	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0755	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	52.9		0.0246	MDL	0.112	PQL	mg/Kg	J	A
ZINC	64.6		0.625	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 11:05:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 11:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.117	MDL	0.442	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0818	MDL	0.221	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.22		0.0885	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	41.2		0.133	MDL	0.442	PQL	mg/Kg	J	Q, A
COBALT	10.9		0.0221	MDL	0.111	PQL	mg/Kg	J	A
COPPER	14.4		0.0885	MDL	0.442	PQL	mg/Kg	J	A
LEAD	7.81		0.0113	MDL	0.221	PQL	mg/Kg	J	A
NICKEL	34.7		0.111	MDL	0.442	PQL	mg/Kg	J	A
SILVER	0.0373	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	60.1		0.0243	MDL	0.111	PQL	mg/Kg	J	A
ZINC	68.5		0.619	MDL	3.32	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 11:10:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0961	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-157-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 11:10:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	182		0.121	MDL	0.457	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.289		0.0845	MDL	0.228	PQL	mg/Kg	J	Q, E
ARSENIC	13.2		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
CADMIUM	0.0859	J	0.0503	MDL	0.114	PQL	mg/Kg	J	Z
CHROMIUM	53.7		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	16.5		0.0228	MDL	0.114	PQL	mg/Kg	J	A
COPPER	28.0		0.0914	MDL	0.457	PQL	mg/Kg	J	A
LEAD	14.8		0.0117	MDL	0.228	PQL	mg/Kg	J	A
NICKEL	45.3		0.114	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0886	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	85.8		0.0251	MDL	0.114	PQL	mg/Kg	J	A
ZINC	108		0.640	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 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	0.153	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.116	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 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	0.222		0.0806	MDL	0.218	PQL	mg/Kg	J	Q, E
ARSENIC	7.61		0.0872	MDL	0.436	PQL	mg/Kg	J	Q
CADMIUM	0.102	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	47.7		0.131	MDL	0.436	PQL	mg/Kg	J	Q, A
COBALT	13.5		0.0218	MDL	0.109	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 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	16.3		0.0872	MDL	0.436	PQL	mg/Kg	J	A
LEAD	9.47		0.0111	MDL	0.218	PQL	mg/Kg	J	A
NICKEL	39.8		0.109	MDL	0.436	PQL	mg/Kg	J	A
SILVER	0.0328	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	69.3		0.0240	MDL	0.109	PQL	mg/Kg	J	A
ZINC	85.6		0.610	MDL	3.27	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.121	MDL	0.457	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.59		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	12.0		0.0228	MDL	0.114	PQL	mg/Kg	J	A
COPPER	11.9		0.0914	MDL	0.457	PQL	mg/Kg	J	A
LEAD	8.99		0.0116	MDL	0.228	PQL	mg/Kg	J	A
NICKEL	32.6		0.114	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0627	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	57.2		0.0251	MDL	0.114	PQL	mg/Kg	J	A
ZINC	59.5		0.640	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-159-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 2:55:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.121	MDL	0.457	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 2:55:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.215	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.64		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
CHROMIUM	39.1		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	12.0		0.0228	MDL	0.114	PQL	mg/Kg	J	A
COPPER	14.4		0.0914	MDL	0.457	PQL	mg/Kg	J	A
LEAD	8.39		0.0116	MDL	0.228	PQL	mg/Kg	J	A
NICKEL	25.3		0.114	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0253	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	69.0		0.0251	MDL	0.114	PQL	mg/Kg	J	A
ZINC	71.2		0.640	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 3:00:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0919	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 3:00:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.118	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 3:00:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0827	MDL	0.223	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.84		0.0894	MDL	0.447	PQL	mg/Kg	J	Q
CADMIUM	0.0539	J	0.0492	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	36.6		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	11.1		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	13.1		0.0894	MDL	0.447	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	8.23		0.0114	MDL	0.223	PQL	mg/Kg	J	A
NICKEL	29.5		0.112	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0399	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	58.4		0.0246	MDL	0.112	PQL	mg/Kg	J	A
ZINC	63.1		0.626	MDL	3.35	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.74	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
HEXAVALENT CHROMIUM	0.34	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.75	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
HEXAVALENT CHROMIUM	0.67	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 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	0.65	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0118	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0117	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 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
MERCURY	0.0110	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

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

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	Q

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

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.7	J	6.8	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.3	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.8	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 Laboratory: LL

EDD Filename: DE196_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: TB-070811 *Collected:* 7/8/2011 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
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

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

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		6.3	MDL	7.5	PQL	ug/Kg	U	B
CHLOROFORM	0.26	J	0.11	MDL	3.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	82		0.23	MDL	3.8	PQL	ug/Kg	J	L
TOLUENE	0.13	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	29		6.9	MDL	8.2	PQL	ug/Kg	U	B
CHLOROFORM	0.24	J	0.12	MDL	4.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	64		0.25	MDL	4.1	PQL	ug/Kg	J	L
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	29		7.1	MDL	8.5	PQL	ug/Kg	U	B
CHLOROFORM	0.29	J	0.13	MDL	4.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	26		0.26	MDL	4.3	PQL	ug/Kg	J	L
TOLUENE	0.16	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	36		6.6	MDL	7.9	PQL	ug/Kg	U	B
CHLOROFORM	0.26	J	0.12	MDL	3.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	130		0.24	MDL	3.9	PQL	ug/Kg	J	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.14	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	30		7.5	MDL	8.9	PQL	ug/Kg	U	B
CHLOROFORM	0.28	J	0.13	MDL	4.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	27		0.27	MDL	4.5	PQL	ug/Kg	J	L
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE196

Method Blank Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19308AB220451	7/22/2011 4:51:00 AM	CALCIUM	5.50 mg/Kg	SL-155-SA5DN-SB-4.0-5.0
		IRON	3.57 mg/Kg	SL-155-SA5DN-SB-9.0-10.0
		PHOSPHORUS	1.18 mg/Kg	SL-156-SA5DN-SB-4.0-5.0
		TIN	1.64 mg/Kg	SL-156-SA5DN-SB-9.0-10.0
				SL-157-SA5DN-SB-4.0-5.0
				SL-157-SA5DN-SB-9.0-10.0
				SL-158-SA5DN-SB-4.0-5.0
				SL-158-SA5DN-SB-9.0-10.0
				SL-159-SA5DN-SB-4.0-5.0
				SL-159-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-155-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19926CB221213A	7/20/2011 12:13:00 PM	LEAD	0.0138 mg/Kg	SL-155-SA5DN-SB-4.0-5.0
				SL-155-SA5DN-SB-9.0-10.0
				SL-156-SA5DN-SB-4.0-5.0
				SL-156-SA5DN-SB-9.0-10.0
				SL-157-SA5DN-SB-4.0-5.0
				SL-157-SA5DN-SB-9.0-10.0
				SL-158-SA5DN-SB-4.0-5.0
				SL-158-SA5DN-SB-9.0-10.0
				SL-159-SA5DN-SB-4.0-5.0
				SL-159-SA5DN-SB-9.0-10.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE	9.3 ug/Kg	SL-155-SA5DN-SB-4.0-5.0
		CHLOROFORM	0.14 ug/Kg	SL-156-SA5DN-SB-4.0-5.0
		METHYLENE CHLORIDE	2.1 ug/Kg	SL-157-SA5DN-SB-4.0-5.0
		TOLUENE	0.11 ug/Kg	SL-158-SA5DN-SB-4.0-5.0
				SL-159-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-155-SA5DN-SB-4.0-5.0(RES)	ACETONE	31 ug/Kg	31U ug/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.26 ug/Kg	3.8U ug/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	3.8U ug/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	ACETONE	29 ug/Kg	29U ug/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.24 ug/Kg	4.1U ug/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	4.1U ug/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	ACETONE	29 ug/Kg	29U ug/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.29 ug/Kg	4.3U ug/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.16 ug/Kg	4.3U ug/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	ACETONE	36 ug/Kg	36U ug/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.26 ug/Kg	3.9U ug/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	3.9U ug/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	ACETONE	30 ug/Kg	30U ug/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.28 ug/Kg	4.5U ug/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.17 ug/Kg	4.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_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-156-SA5DN-SB-9.0-10.0MS SL-156-SA5DN-SB-9.0-10.0MSD (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	ALUMINUM MAGNESIUM TITANIUM	2651 126 -	2522 - 128	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM MAGNESIUM TITANIUM	No Qual, >4x
SL-156-SA5DN-SB-9.0-10.0MS SL-156-SA5DN-SB-9.0-10.0MSD (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	IRON MANGANESE	-1228 -38	-1824 -58	75.00-125.00 75.00-125.00	- -	IRON MANGANESE	No Qual, >4x
SL-156-SA5DN-SB-9.0-10.0MS (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	PHOSPHORUS	68	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN-SB-4.0-5.0MSD (SL-155-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL	-	18	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN-SB-9.0-10.0MS SL-155-SA5DN-SB-9.0-10.0MSD (SL-155-SA5DN-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	123	127	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_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-155-SA5DN -SB-4.0-5.0MS SL-155-SA5DN -SB-4.0-5.0MSD (SL-155-SA5DN -SB-4.0-5.0 SL -155-SA5DN -SB-9.0-10.0 SL -156-SA5DN -SB-4.0-5.0 SL -156-SA5DN -SB-9.0-10.0 SL -157-SA5DN -SB-4.0-5.0 SL -157-SA5DN -SB-9.0-10.0 SL -158-SA5DN -SB-4.0-5.0 SL -158-SA5DN -SB-9.0-10.0 SL -159-SA5DN -SB-4.0-5.0 SL -159-SA5DN -SB-9.0-10.0)	ANTIMONY ARSENIC CHROMIUM VANADIUM ZINC	65 - - - 136	50 63 74 60 68	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	22 (20.00) - - - -	ANTIMONY ARSENIC CHROMIUM VANADIUM ZINC	J(all detects) UJ(all non-detects) V, Zn, No Qual, >4x
SL-155-SA5DN -SB-4.0-5.0MS SL-155-SA5DN -SB-4.0-5.0MSD (SL-155-SA5DN -SB-4.0-5.0 SL -155-SA5DN -SB-9.0-10.0 SL -156-SA5DN -SB-4.0-5.0 SL -156-SA5DN -SB-9.0-10.0 SL -157-SA5DN -SB-4.0-5.0 SL -157-SA5DN -SB-9.0-10.0 SL -158-SA5DN -SB-4.0-5.0 SL -158-SA5DN -SB-9.0-10.0 SL -159-SA5DN -SB-4.0-5.0 SL -159-SA5DN -SB-9.0-10.0)	BARIUM	185	43	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN -SB-4.0-5.0MS (SL-155-SA5DN -SB-4.0-5.0 SL -155-SA5DN -SB-9.0-10.0 SL -156-SA5DN -SB-4.0-5.0 SL -156-SA5DN -SB-9.0-10.0 SL -157-SA5DN -SB-4.0-5.0 SL -157-SA5DN -SB-9.0-10.0 SL -158-SA5DN -SB-4.0-5.0 SL -158-SA5DN -SB-9.0-10.0 SL -159-SA5DN -SB-4.0-5.0 SL -159-SA5DN -SB-9.0-10.0)	FLUORIDE	43	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-156-SA5DN-SB-9.0-10.0DUP	BORON	23	20.00	
(SL-155-SA5DN-SB-4.0-5.0	MANGANESE	35	20.00	
SL-155-SA5DN-SB-9.0-10.0				J (all detects) UJ (all non-detects)
SL-156-SA5DN-SB-4.0-5.0				
SL-156-SA5DN-SB-9.0-10.0				
SL-157-SA5DN-SB-4.0-5.0				
SL-157-SA5DN-SB-9.0-10.0				
SL-158-SA5DN-SB-4.0-5.0				B, No Qual, OK by Difference
SL-158-SA5DN-SB-9.0-10.0				
SL-159-SA5DN-SB-4.0-5.0				
SL-159-SA5DN-SB-9.0-10.0)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA5DN-SB-4.0-5.0DUP	MOLYBDENUM	38	20.00	
(SL-155-SA5DN-SB-4.0-5.0				
SL-155-SA5DN-SB-9.0-10.0				
SL-156-SA5DN-SB-4.0-5.0				
SL-156-SA5DN-SB-9.0-10.0				
SL-157-SA5DN-SB-4.0-5.0				No Qual, OK by Difference
SL-157-SA5DN-SB-9.0-10.0				
SL-158-SA5DN-SB-4.0-5.0				
SL-158-SA5DN-SB-9.0-10.0				
SL-159-SA5DN-SB-4.0-5.0				
SL-159-SA5DN-SB-9.0-10.0)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-156-SA5DN-SB-4.0-5.0DUP	HEXAVALENT CHROMIUM	35	20.00	
(SL-155-SA5DN-SB-4.0-5.0				
SL-155-SA5DN-SB-9.0-10.0				
SL-156-SA5DN-SB-4.0-5.0				
SL-156-SA5DN-SB-9.0-10.0				
SL-157-SA5DN-SB-4.0-5.0				No Qual, OK by Difference
SL-157-SA5DN-SB-9.0-10.0				
SL-158-SA5DN-SB-4.0-5.0				
SL-158-SA5DN-SB-9.0-10.0				
SL-159-SA5DN-SB-4.0-5.0				
SL-159-SA5DN-SB-9.0-10.0)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 Laboratory: LL

EDD Filename: DE196_v1 eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11934AQ240005A P11934AY240047A (EB22-SA5DN-SB-070811)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 129	110 110 129	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y25Q211132A LCS1Y25Y211153A (TB-070811)	2-Chloro-1,1,1-trifluoroethane	73	73	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19308AQ220455 (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	142 123 122 172	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LDLCSQ261927 (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	128	-	55.00-118.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 Laboratory: LL

EDD Filename: DE196_v1 eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB16Q211423A LCSB16Y211251A (SL-155-SA5DN -SB-4.0-5.0 SL -156-SA5DN -SB-4.0-5.0 SL -157-SA5DN -SB-4.0-5.0 SL -158-SA5DN -SB-4.0-5.0 SL -159-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	BORON	J	5.60	5.73	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	11.5	PQL	mg/Kg	
SL-155-SA5DN-SB-9.0-10.0	TIN	J	2.82	11.3	PQL	mg/Kg	J (all detects)
SL-156-SA5DN-SB-4.0-5.0	BORON	J	5.47	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	11.0	PQL	mg/Kg	
SL-156-SA5DN-SB-9.0-10.0	BORON	J	3.28	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	11.1	PQL	mg/Kg	
	Zirconium	J	5.07	5.53	PQL	mg/Kg	
SL-157-SA5DN-SB-4.0-5.0	BORON	J	5.53	5.58	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	112	PQL	mg/Kg	
	TIN	J	2.84	11.2	PQL	mg/Kg	
SL-157-SA5DN-SB-9.0-10.0	BORON	J	4.75	5.82	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	11.6	PQL	mg/Kg	
SL-158-SA5DN-SB-4.0-5.0	BORON	J	4.88	5.45	PQL	mg/Kg	J (all detects)
	SODIUM	J	98.1	109	PQL	mg/Kg	
	TIN	J	2.57	10.9	PQL	mg/Kg	
SL-158-SA5DN-SB-9.0-10.0	BORON	J	3.88	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	3.09	11.2	PQL	mg/Kg	
	Zirconium	J	5.14	5.60	PQL	mg/Kg	
SL-159-SA5DN-SB-4.0-5.0	BORON	J	5.35	5.55	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	111	PQL	mg/Kg	
	TIN	J	2.50	11.1	PQL	mg/Kg	
SL-159-SA5DN-SB-9.0-10.0	BORON	J	4.69	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	11.1	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.126	0.445	PQL	mg/Kg	
	SILVER	J	0.0460	0.111	PQL	mg/Kg	
SL-155-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.140	0.234	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0565	0.117	PQL	mg/Kg	
SL-156-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.196	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.452	PQL	mg/Kg	
	SILVER	J	0.0407	0.113	PQL	mg/Kg	
SL-156-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0851	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0755	0.112	PQL	mg/Kg	
SL-157-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.202	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.442	PQL	mg/Kg	
	SILVER	J	0.0373	0.111	PQL	mg/Kg	
SL-157-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0859	0.114	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0961	0.457	PQL	mg/Kg	
	SILVER	J	0.0886	0.114	PQL	mg/Kg	
SL-158-SA5DN-SB-4.0-5.0	CADMIUM	J	0.102	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.153	0.436	PQL	mg/Kg	
	SILVER	J	0.0328	0.109	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-158-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.106	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.162	0.457	PQL	mg/Kg	
	SILVER	J	0.0627	0.114	PQL	mg/Kg	
SL-159-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.215	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.134	0.457	PQL	mg/Kg	
	SILVER	J	0.0253	0.114	PQL	mg/Kg	
SL-159-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.206	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0539	0.112	PQL	mg/Kg	
	SELENIUM	J	0.0919	0.447	PQL	mg/Kg	
	SILVER	J	0.0399	0.112	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.34	1.2	PQL	mg/Kg	J (all detects)
SL-156-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-156-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.75	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-158-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-158-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.66	1.2	PQL	mg/Kg	J (all detects)
SL-159-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-159-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA5DN-SB-9.0-10.0	MERCURY	J	0.0118	0.108	PQL	mg/Kg	J (all detects)
SL-157-SA5DN-SB-9.0-10.0	MERCURY	J	0.0117	0.110	PQL	mg/Kg	J (all detects)
SL-158-SA5DN-SB-9.0-10.0	MERCURY	J	0.0110	0.108	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	CHLOROFORM	J	0.26	3.8	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	3.8	PQL	ug/Kg	
SL-156-SA5DN-SB-4.0-5.0	CHLOROFORM	J	0.24	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.29 0.16	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-158-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.26 0.14	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.28 0.17	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	21	PQL	ug/Kg	J (all detects)
SL-155-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.1	21	PQL	ug/Kg	J (all detects)
SL-156-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	21	PQL	ug/Kg	J (all detects)
SL-156-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.7	21	PQL	ug/Kg	J (all detects)
SL-157-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	J (all detects)
SL-157-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-158-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	20	PQL	ug/Kg	J (all detects)
SL-158-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate	J J	17 7.3	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	8.9 8.8	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	16 9.2	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)

LDC #: 26277W4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE196 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, B, Fe, Mg, Mn, Ti, Ba, V, Zn >4X
VII.	Duplicate Sample Analysis	SW	Mo <5X, Mn J/UJ
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V, Zn
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-155-SA5DN-SB-4.0-5.0	11	#6 MS (4x)	21		31	
2	SL-155-SA5DN-SB-9.0-10.0	12	↓ MSD ↓	22		32	
3	SL-156-SA5DN-SB-4.0-5.0	13	Dup	23		33	
4	SL-156-SA5DN-SB-9.0-10.0	14	#1 MS (TP/MS)	24		34	
5	SL-157-SA5DN-SB-4.0-5.0	15	MSD ↓	25		35	
6	SL-157-SA5DN-SB-9.0-10.0	16	Dup ↓	26		36	
7	SL-158-SA5DN-SB-4.0-5.0	17	#4 MS (TP)	27		37	
8	SL-158-SA5DN-SB-9.0-10.0	18	↓ MSD ↓	28		38	
9	SL-159-SA5DN-SB-4.0-5.0	19	↓ Dup ↓	29		39	
10	SL-159-SA5DN-SB-9.0-10.0	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE196
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339508BKG Matrix Spike Lab Sample ID: 6339508MS Matrix Spike Duplicate Lab Sample ID: 6339508MSD
% Solids for Sample: 87.8
Batch Id(s): P19308A

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Aluminum		22987.0889		28850.6391		28731.2198		221.1558	227.7904	MG/KG	2651		2522		0			20	P
Boron		3.2775	B	215.5506		220.7699		221.1558	227.7904	MG/KG	96		95		2		84 - 115	20	P
Calcium		2768.7452		3263.7669		3314.6378		442.3115	455.5809	MG/KG	112		120		2			20	P
Iron		29104.9616		27746.8541		27027.9442		110.5779	113.8952	MG/KG	-1228		-1824		3			20	P
Lithium		25.4716		137.8431		139.4601		110.5779	113.8952	MG/KG	102		100		1		82 - 114	20	P
Magnesium		6015.6899		6294.9013		6232.2961		221.1558	227.7904	MG/KG	126		95		1			20	P
Manganese		260.9284		239.7362		227.8724		55.2889	56.9476	MG/KG	-38		-58		5			20	P
Phosphorus		246.8894		321.9298		333.9294		110.5779	113.8952	MG/KG	68	N	76		4		75 - 125	20	P
Potassium		2393.1320		3655.8805		3609.9112		1105.7788	1138.9522	MG/KG	114		107		1		75 - 125	20	P
Sodium		132.6426		1198.4453		1225.6538		1105.7788	1138.9522	MG/KG	96		96		2		75 - 125	20	P
Strontium		21.5572		130.8092		133.5934		110.5779	113.8952	MG/KG	99		98		2		75 - 115	20	P
Tin		2.8839	B	369.8321		384.2927		442.3115	455.5809	MG/KG	83		84		4		80 - 110	20	P
Titanium		1255.4294		1382.8715		1401.3872		110.5779	113.8952	MG/KG	115		128		1			20	P
Zirconium		5.0711	B	111.6870		111.8064		110.5779	113.8952	MG/KG	96		94		0		75 - 125	20	P

DE196

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE196
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339505BKG Matrix Spike Lab Sample ID: 6339505MS Matrix Spike Duplicate Lab Sample ID: 6339505MSD
% Solids for Sample: 87.3
Batch Id(s): P19926C

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Antimony	121	0.1699	B	1.0518		0.8432		1.3610	1.3476	MG/KG	65	N	50	N	22	*	75 - 125	20	MS
Arsenic	75	6.6727		9.0073		8.0880		2.2683	2.2460	MG/KG	103		63	N	11		75 - 125	20	MS
Barium	137	131.2959		152.2915		136.0870		11.3413	11.2302	MG/KG	185		43		11			20	MS
Beryllium	9	0.9090		1.8214		1.6742		0.9073	0.8984	MG/KG	101		85		8		75 - 125	20	MS
Cadmium	111	0.1840		1.3646		1.3434		1.1341	1.1230	MG/KG	104		103		2		75 - 125	20	MS
Chromium	52	35.9657		44.8210		44.2468		11.3413	11.2302	MG/KG	78		74	N	1		75 - 125	20	MS
Cobalt	59	10.5206		72.7887		64.8204		56.7067	56.1508	MG/KG	110		97		12		75 - 125	20	MS
Copper	63	15.2871		28.3080		25.8293		11.3413	11.2302	MG/KG	115		94		9		75 - 125	20	MS
Lead	208	8.0005		11.9855		11.1291		3.4024	3.3690	MG/KG	117		93		7		75 - 125	20	MS
Molybdenum	98	0.6077		12.2963		11.4772		11.3413	11.2302	MG/KG	103		97		7		75 - 125	20	MS
Nickel	60	26.4683		40.4205		36.6328		11.3413	11.2302	MG/KG	123		91		10		75 - 125	20	MS
Selenium	78	0.1259	B	2.3386		2.1786		2.2683	2.2460	MG/KG	98		91		7		75 - 125	20	MS
Silver	107	0.0460	B	11.8086		10.8483		11.3413	11.2302	MG/KG	104		96		8		75 - 125	20	MS
Thallium	203	0.3792		0.7252		0.7396		0.4537	0.4492	MG/KG	76		80		2		75 - 125	20	MS
Vanadium	51	59.4090		70.0668		66.1231		11.3413	11.2302	MG/KG	94		60		6			20	MS
Zinc	66	71.8202		87.2830		79.5095		11.3413	11.2302	MG/KG	136		68		9			20	MS

6339505

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE196
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339505BKG Serial Dilution Lab Sample ID: 6339505L
Batch ID(s): P19926C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.7640	B	1.8500	U	100		MS
Arsenic	75	30.0000		36.6150		22		MS
Barium	137	590.3000		693.0000		17	E	MS
Beryllium	9	4.0870		4.4430		9		MS
Cadmium	111	0.8272		1.1000	U	100		MS
Chromium	52	161.7000		201.2000		24	E	MS
Cobalt	59	47.3000		56.7000		20	E	MS
Copper	63	68.7300		77.8000		13	E	MS
Lead	208	35.9700		41.6150		16	E	MS
Molybdenum	98	2.7320		3.2730		20		MS
Nickel	60	119.0000		135.7500		14	E	MS
Selenium	78	0.5661	B	1.4500	U	100		MS
Silver	107	0.2066	B	0.4326	B	109		MS
Thallium	203	1.7050		1.4725	B	14		MS
Vanadium	51	267.1000		321.6000		20	E	MS
Zinc	66	322.9000		395.5000		22	E	MS

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: DE196 2945
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE197

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	TB-070911	6340794	TB	5030B	8015M	III
11-Jul-2011	TB-070911	6340794	TB	5030B	8260B	III
11-Jul-2011	TB-070911	6340794	TB	5030B	8260B SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3050B	6010B	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3050B	6020	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8082	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8270C	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8270C SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	5035	8260B	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	5035	8260B SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	Gen Prep	7199	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	300.0	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	314.0	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	7471A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3050B	6010B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3050B	6020	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8015B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8015M	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8081A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8082	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8151A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8270C	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8270C SIM	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	Gen Prep	7199	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	300.0	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	7471A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	8015B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	8015M	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3050B	6010B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3050B	6020	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8015B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8015M	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8081A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8082	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8151A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8270C	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8270C SIM	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	Gen Prep	7199	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	300.0	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	314.0	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	7471A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	8015B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	P340796M261603	MSD	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	P340796R261538	MS	3550B	8270C	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3050B	6010B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3050B	6020	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8015B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8015M	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8081A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8082	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8151A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8270C	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	Gen Prep	7199	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	300.0	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	7471A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	8015B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	8015M	III
11-Jul-2011	DUP01-SA6-QC-071111DUP	P340802D270122B	DUP	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111DUP	P340802D270939B	DUP	METHOD	300.0	III
11-Jul-2011	DUP01-SA6-QC-071111MS	P340802R270208B	MS	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111MS	P340802R270953B	MS	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3050B	6010B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3050B	6020	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8082	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8270C	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8270C SIM	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	5035	8260B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	5035	8260B SIM	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	Gen Prep	7199	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	314.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	7471A	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3050B	6010B	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3050B	6020	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8082	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8270C	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	Gen Prep	7199	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	314.0	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	7471A	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3050B	6010B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3050B	6020	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8015B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8015M	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8082	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8270C	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8270C SIM	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8015M	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8260B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8260B SIM	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	Gen Prep	7199	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	300.0	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	314.0	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	7471A	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	8015B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	8015M	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3050B	6010B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3050B	6020	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8015B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8015M	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8081A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8151A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8270C	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8270C SIM	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	Gen Prep	7199	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	300.0	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	314.0	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	7471A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	8015B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3050B	6010B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3050B	6020	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8015B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8082	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8270C	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8270C SIM	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8260B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8260B SIM	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	Gen Prep	7199	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	300.0	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	314.0	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	7471A	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	8015B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3050B	6020	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8015B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8082	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8270C	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8270C SIM	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	5035	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	Gen Prep	7199	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	300.0	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	314.0	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	7471A	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	8015B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	8015M	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

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
FLUORIDE	4.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

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
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

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
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	3.0		0.88	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

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
FLUORIDE	4.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

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
FLUORIDE	6.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	2.7		0.82	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.81	MDL	1.0	PQL	mg/Kg	J	Q

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
FLUORIDE	2.4		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.95	J	1.78	MDL	24.7	PQL	mg/Kg	J	Z, FD

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
CALCIUM	4740		2.47	MDL	19.8	PQL	mg/Kg	J	E
IRON	24900		2.58	MDL	19.8	PQL	mg/Kg	J	E, E
MANGANESE	267		0.0356	MDL	0.494	PQL	mg/Kg	J	E, E
PHOSPHORUS	521		0.346	MDL	9.88	PQL	mg/Kg	J	E
TIN	4.67	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	4.22	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.31	J	2.07	MDL	28.7	PQL	mg/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
CALCIUM	2010		2.87	MDL	22.9	PQL	mg/Kg	J	E
IRON	26600		2.99	MDL	22.9	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

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
MANGANESE	147		0.0413	MDL	0.574	PQL	mg/Kg	J	E, E
PHOSPHORUS	354		0.402	MDL	11.5	PQL	mg/Kg	J	E
SODIUM	103	J	6.83	MDL	115	PQL	mg/Kg	J	Z
TIN	3.46	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

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
CALCIUM	1780		2.62	MDL	20.9	PQL	mg/Kg	J	E
IRON	19200		2.73	MDL	20.9	PQL	mg/Kg	J	E, E
MANGANESE	334		0.0377	MDL	0.524	PQL	mg/Kg	J	E, E
PHOSPHORUS	299		0.367	MDL	10.5	PQL	mg/Kg	J	E
SODIUM	72.4	J	6.23	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.30	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

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
CALCIUM	2160		2.74	MDL	21.9	PQL	mg/Kg	J	E
IRON	21200		2.86	MDL	21.9	PQL	mg/Kg	J	E, E
MANGANESE	150		0.0394	MDL	0.547	PQL	mg/Kg	J	E, E
PHOSPHORUS	125		0.383	MDL	10.9	PQL	mg/Kg	J	E
TIN	3.30	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 8:15:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	7.53	J	1.94	MDL	26.9	PQL	mg/Kg	J	Z
IRON	31000		14.0	MDL	108	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

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
CALCIUM	4770		2.69	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	457		0.0387	MDL	0.538	PQL	mg/Kg	J	E, E
PHOSPHORUS	277		0.377	MDL	10.8	PQL	mg/Kg	J	E
TIN	3.41	J	0.344	MDL	10.8	PQL	mg/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
CALCIUM	5970		2.53	MDL	20.3	PQL	mg/Kg	J	E
IRON	18700		2.64	MDL	20.3	PQL	mg/Kg	J	E, E
MANGANESE	286		0.0365	MDL	0.507	PQL	mg/Kg	J	E, E
PHOSPHORUS	559		0.355	MDL	10.1	PQL	mg/Kg	J	E
TIN	3.08	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.26	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	35800		14.9	MDL	114	PQL	mg/Kg	J	E, E

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
CALCIUM	9760		2.86	MDL	22.9	PQL	mg/Kg	J	E
MANGANESE	455		0.0412	MDL	0.572	PQL	mg/Kg	J	E, E
PHOSPHORUS	307		0.400	MDL	11.4	PQL	mg/Kg	J	E
TIN	3.26	J	0.366	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	68900		13.5	MDL	108	PQL	mg/Kg	J	E
IRON	31500		14.1	MDL	108	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **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
MANGANESE	422		0.0389	MDL	0.540	PQL	mg/Kg	J	E, E
PHOSPHORUS	440		0.378	MDL	10.8	PQL	mg/Kg	J	E
TIN	3.05	J	0.345	MDL	10.8	PQL	mg/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
CALCIUM	7910		2.55	MDL	20.4	PQL	mg/Kg	J	E
IRON	20500		2.67	MDL	20.4	PQL	mg/Kg	J	E, E
MANGANESE	247		0.0368	MDL	0.511	PQL	mg/Kg	J	E, E
PHOSPHORUS	522		0.358	MDL	10.2	PQL	mg/Kg	J	E
TIN	3.11	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 **Collected: 7/11/2011 9:42:00** **Analysis Type: REA** **Dilution: 5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27800		13.0	MDL	99.9	PQL	mg/Kg	J	E, E

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
BORON	0.359	U	0.359	MDL	4.99	PQL	mg/Kg	UJ	FD
CALCIUM	6820		2.50	MDL	20.0	PQL	mg/Kg	J	E
MANGANESE	336		0.0359	MDL	0.499	PQL	mg/Kg	J	E, E
PHOSPHORUS	518		0.350	MDL	9.99	PQL	mg/Kg	J	E
TIN	4.79	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	4.88	J	0.459	MDL	4.99	PQL	mg/Kg	J	Z

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
CALCIUM	4860		2.54	MDL	20.3	PQL	mg/Kg	J	E
IRON	23400		2.65	MDL	20.3	PQL	mg/Kg	J	E, E
MANGANESE	239		0.0365	MDL	0.508	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

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
PHOSPHORUS	527		0.355	MDL	10.2	PQL	mg/Kg	J	E
TIN	3.47	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.46	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	611		2.71	MDL	14.5	PQL	mg/Kg	J	A

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0562	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	7.74		0.0485	MDL	0.0969	PQL	mg/Kg	J	Q, E, E

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.35		0.0717	MDL	0.194	PQL	mg/Kg	J	Q, E
ARSENIC	4.82		0.0775	MDL	0.388	PQL	mg/Kg	J	FD
CADMIUM	1.85		0.0426	MDL	0.0969	PQL	mg/Kg	J	Q
CHROMIUM	28.0		0.116	MDL	0.388	PQL	mg/Kg	J	Q
COPPER	62.2		0.0775	MDL	0.388	PQL	mg/Kg	J	E, E
LEAD	84.8		0.0099	MDL	0.194	PQL	mg/Kg	J	E, E
NICKEL	14.3		0.0969	MDL	0.388	PQL	mg/Kg	J	Q, Q, E
VANADIUM	28.7		0.0213	MDL	0.0969	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.36		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0832	U	0.0832	MDL	0.225	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0495	U	0.0495	MDL	0.112	PQL	mg/Kg	UJ	Q
CHROMIUM	20.3		0.135	MDL	0.450	PQL	mg/Kg	J	Q
COPPER	6.43		0.0900	MDL	0.450	PQL	mg/Kg	J	E, E
LEAD	7.06		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E
NICKEL	12.6		0.112	MDL	0.450	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0830	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	53.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, Q, E
ZINC	45.9		0.630	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 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
SELENIUM	0.117	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.482		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 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	0.0768	U	0.0768	MDL	0.207	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.133		0.0456	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 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
CHROMIUM	17.6		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COPPER	8.61		0.0830	MDL	0.415	PQL	mg/Kg	J	E, E
LEAD	4.77		0.0106	MDL	0.207	PQL	mg/Kg	J	E, E
NICKEL	13.7		0.104	MDL	0.415	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0298	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	34.7		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, Q, E
ZINC	50.8		0.581	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0714	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 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
MOLYBDENUM	0.512		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 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	0.0786	U	0.0786	MDL	0.212	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0529	J	0.0467	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.3		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COPPER	5.98		0.0850	MDL	0.425	PQL	mg/Kg	J	E, E
LEAD	6.20		0.0108	MDL	0.212	PQL	mg/Kg	J	E, E
NICKEL	9.96		0.106	MDL	0.425	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0371	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	39.7		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, Q, E
ZINC	44.1		0.595	MDL	3.19	PQL	mg/Kg	J	A

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.675		0.0523	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0774	MDL	0.209	PQL	mg/Kg	J	Q, E
CADMIUM	0.262		0.0460	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COPPER	12.3		0.0836	MDL	0.418	PQL	mg/Kg	J	E, E
LEAD	9.93		0.0107	MDL	0.209	PQL	mg/Kg	J	E, E
NICKEL	24.4		0.105	MDL	0.418	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0646	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	72.4		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, Q, E
ZINC	65.9		0.585	MDL	3.14	PQL	mg/Kg	J	A

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.660		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.179	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.433		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	21.8		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COPPER	15.5		0.0795	MDL	0.397	PQL	mg/Kg	J	E, E
LEAD	20.2		0.0101	MDL	0.199	PQL	mg/Kg	J	E, E
NICKEL	12.6		0.0993	MDL	0.397	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0746	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	37.6		0.0219	MDL	0.0993	PQL	mg/Kg	J	Q, Q, E
ZINC	102		0.556	MDL	2.98	PQL	mg/Kg	J	A

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0664	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 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
MOLYBDENUM	0.353		0.0572	MDL	0.114	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 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	0.135	J	0.0847	MDL	0.229	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.330		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	41.5		0.137	MDL	0.458	PQL	mg/Kg	J	Q
COPPER	18.3		0.0915	MDL	0.458	PQL	mg/Kg	J	E, E
LEAD	10.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, E
NICKEL	24.3		0.114	MDL	0.458	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0436	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	76.6		0.0252	MDL	0.114	PQL	mg/Kg	J	Q, Q, E
ZINC	78.2		0.641	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0894	J	0.0645	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.196		0.0556	MDL	0.111	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0953	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.318		0.0489	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	34.9		0.133	MDL	0.444	PQL	mg/Kg	J	Q
COPPER	16.9		0.0889	MDL	0.444	PQL	mg/Kg	J	E, E
LEAD	8.44		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E
NICKEL	20.1		0.111	MDL	0.444	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0386	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	67.1		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, Q, E
ZINC	64.8		0.622	MDL	3.33	PQL	mg/Kg	J	A

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	221		1.42	MDL	7.59	PQL	mg/Kg	J	A

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.238	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0506	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.420		0.0748	MDL	0.202	PQL	mg/Kg	J	Q, E
CADMIUM	1.41		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	20.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COPPER	19.2		0.0809	MDL	0.405	PQL	mg/Kg	J	E, E
LEAD	32.6		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E
NICKEL	12.0		0.101	MDL	0.405	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0759	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	36.6		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, Q, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	796		2.69	MDL	14.4	PQL	mg/Kg	J	A

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.319	J	0.0557	MDL	0.384	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	5.63		0.0480	MDL	0.0961	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.29		0.0711	MDL	0.192	PQL	mg/Kg	J	Q, E
ARSENIC	8.24		0.0768	MDL	0.384	PQL	mg/Kg	J	FD
CADMIUM	2.39		0.0423	MDL	0.0961	PQL	mg/Kg	J	Q
CHROMIUM	34.4		0.115	MDL	0.384	PQL	mg/Kg	J	Q
COPPER	50.3		0.0768	MDL	0.384	PQL	mg/Kg	J	E, E
LEAD	78.3		0.0098	MDL	0.192	PQL	mg/Kg	J	E, E
NICKEL	17.5		0.0961	MDL	0.384	PQL	mg/Kg	J	Q, Q, E
VANADIUM	36.0		0.0211	MDL	0.0961	PQL	mg/Kg	J	Q, Q, E

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	481		2.76	MDL	14.8	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0572	MDL	0.394	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.70		0.0493	MDL	0.0986	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.774		0.0729	MDL	0.197	PQL	mg/Kg	J	Q, E
CADMIUM	1.30		0.0434	MDL	0.0986	PQL	mg/Kg	J	Q
CHROMIUM	61.0		0.118	MDL	0.394	PQL	mg/Kg	J	Q
COPPER	27.1		0.0789	MDL	0.394	PQL	mg/Kg	J	E, E
LEAD	48.8		0.0101	MDL	0.197	PQL	mg/Kg	J	E, E
NICKEL	18.2		0.0986	MDL	0.394	PQL	mg/Kg	J	Q, Q, E
VANADIUM	41.2		0.0217	MDL	0.0986	PQL	mg/Kg	J	Q, Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

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
HEXAVALENT CHROMIUM	0.56	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.64	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.49	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 7199 **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
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.0	PQL	mg/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
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.35	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

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

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
MERCURY	0.0206	J	0.0080	MDL	0.114	PQL	mg/Kg	J	Z

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
MERCURY	0.0102	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

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
MERCURY	0.0820	J	0.0070	MDL	0.0998	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	44	J	40	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.47	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.81	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.5	J	4.4	MDL	13	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.4	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	42	J	40	MDL	120	PQL	mg/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
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	41		6.7	MDL	34	PQL	ug/Kg	J	FD
DIELDRIN	8.8	U	8.8	MDL	34	PQL	ug/Kg	UJ	FD
ENDOSULFAN II	36		6.7	MDL	34	PQL	ug/Kg	J	FD
ENDRIN ALDEHYDE	12	J	6.7	MDL	34	PQL	ug/Kg	J	Z, FD

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.87		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	2.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.26	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	0.62		0.067	MDL	0.34	PQL	ug/Kg	J	S
HEPTACHLOR	0.13	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.56		0.034	MDL	0.17	PQL	ug/Kg	J	S

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	3.4	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z
DIELDRIN	2.6	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** DL-BASE/NEUTRAL ***Dilution:*** 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	6.7	U	6.7	MDL	34	PQL	ug/Kg	UJ	FD
DIELDRIN	60		6.7	MDL	34	PQL	ug/Kg	J	FD
ENDOSULFAN II	15	U	15	MDL	34	PQL	ug/Kg	UJ	FD
ENDRIN ALDEHYDE	14	U	14	MDL	34	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 8:32:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	39	J	16	MDL	69	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	5.8	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z
MIREX	1.8	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.70	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, FD
Aroclor 5460	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	FD

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2600		67	MDL	340	PQL	ug/Kg	J	FD
Aroclor 5460	3300		200	MDL	670	PQL	ug/Kg	J	FD

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.53	U	0.53	MDL	0.53	PQL	ug/Kg	UJ	FD
2,4,5-TP (Silvex)	0.40		0.076	MDL	0.17	PQL	ug/Kg	J	S, FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

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
2,4-DB	1.3	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

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
2,4,5-TP (Silvex)	0.077	J	0.077	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

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
2,4,5-T	0.62		0.083	MDL	0.17	PQL	ug/Kg	J	Q, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	UJ	FD
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L

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
DICAMBA	0.69	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPA	190	J	77	MDL	250	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	89	J	17	MDL	170	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	28	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	150	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	21	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
FLUORENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z
N-NITROSODIPHENYLAMINE	140	J	17	MDL	170	PQL	ug/Kg	J	Z, FD

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***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	31	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 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	33	J	18	MDL	360	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 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	34	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	66	J	17	MDL	170	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
Butylbenzylphthalate	25	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	26	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	60	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***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	R	Q, Q
2,4-DINITROTOLUENE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
2,6-DINITROTOLUENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2-CHLOROPHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2-METHYLPHENOL	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	R	Q, Q
3-NITROANILINE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
4-METHYLPHENOL	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4-NITROANILINE	67	U	67	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROISOPROPYL) ETHER	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	17	MDL	340	PQL	ug/Kg	J	Z
CARBAZOLE	27	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD
HEXACHLOROCYCLOPENTADIENE	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
HEXACHLOROETHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
N-NITROSODIPHENYLAMINE	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	100	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	150	J	60	MDL	180	PQL	ug/Kg	J	Z
Di-n-butylphthalate	200		60	MDL	180	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **DUP01-SA6-QC-071111** ***Collected:*** **7/11/2011 9:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	50		6.7	MDL	17	PQL	ug/Kg	J	FD

Sample ID: **SL-135-SA6-SB-4.0-5.0** ***Collected:*** **7/11/2011 12:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-138-SA6-SB-9.0-10.0** ***Collected:*** **7/11/2011 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
NAPHTHALENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-149-SA5DN-SB-4.0-5.0** ***Collected:*** **7/11/2011 8:15:00** ***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	8.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: **SL-149-SA6-SS-0.0-0.5** ***Collected:*** **7/11/2011 9:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	8.2	J	6.6	MDL	17	PQL	ug/Kg	J	Z
Butylbenzylphthalate	69	J	60	MDL	180	PQL	ug/Kg	J	Z
Di-n-butylphthalate	85	J	60	MDL	180	PQL	ug/Kg	U	B
Di-n-octylphthalate	64	J	60	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	10	J	6.6	MDL	17	PQL	ug/Kg	J	Z
PHENANTHRENE	8.5	J	6.6	MDL	17	PQL	ug/Kg	J	Z

Sample ID: **SL-199-SA5DN-SB-4.0-5.0** ***Collected:*** **7/11/2011 10:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-292-SA6-SS-0.0-0.5** ***Collected:*** **7/11/2011 12:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	68	J	61	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: PrepDE197_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	11	J	6.6	MDL	17	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	9.1	J	3.3	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	530		6.6	MDL	17	PQL	ug/Kg	J	L
Di-n-butylphthalate	160	J	60	MDL	180	PQL	ug/Kg	U	B
FLUORENE	7.5	J	6.6	MDL	17	PQL	ug/Kg	J	Z
NAPHTHALENE	6.6	U	6.6	MDL	17	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	180		6.7	MDL	17	PQL	ug/Kg	J	L
Di-n-butylphthalate	190		60	MDL	180	PQL	ug/Kg	U	B
FLUORENE	8.0	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	100	MDL	500	PQL	ug/Kg	J	Z, FD

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: PrepDE197_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	100	U	100	MDL	500	PQL	ug/Kg	UJ	FD

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	15		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.6		0.24	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.12	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		7.3	MDL	8.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.0		0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.14	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		7.3	MDL	8.7	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-149-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 8:15:00 **Analysis Type:** RES **Dilution:** 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	6.9		0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.1	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-199-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 10:00:00 **Analysis Type:** RES **Dilution:** 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.7		0.24	MDL	4.0	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE197

Method Blank Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19408DB220504	7/22/2011 5:04:00 AM	CALCIUM	3.10 mg/Kg	DUP01-SA6-QC-071111
		IRON	4.74 mg/Kg	SL-135-SA6-SB-4.0-5.0
		LITHIUM	0.67 mg/Kg	SL-138-SA6-SB-4.0-5.0
		MAGNESIUM	1.14 mg/Kg	SL-138-SA6-SB-9.0-10.0
		MANGANESE	0.0430 mg/Kg	SL-149-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.40 mg/Kg	SL-149-SA6-SS-0.0-0.5
		STRONTIUM	0.0270 mg/Kg	SL-199-SA5DN-SB-4.0-5.0
		TIN	1.72 mg/Kg	SL-199-SA5DN-SB-9.0-10.0
				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
DUP01-SA6-QC-071111(RES)	TIN	4.67 mg/Kg	4.67U mg/Kg
SL-135-SA6-SB-4.0-5.0(RES)	TIN	3.46 mg/Kg	3.46U mg/Kg
SL-138-SA6-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-138-SA6-SB-9.0-10.0(RES)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-149-SA6-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	TIN	3.26 mg/Kg	3.26U mg/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-292-SA6-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-297-SA6-SS-0.0-0.5(RES)	TIN	4.79 mg/Kg	4.79U mg/Kg
SL-298-SA6-SS-0.0-0.5(RES)	TIN	3.47 mg/Kg	3.47U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19426BB222145A	7/14/2011 9:45:00 PM	COPPER	0.0826 mg/Kg	DUP01-SA6-QC-071111
		VANADIUM	0.0404 mg/Kg	SL-135-SA6-SB-4.0-5.0
				SL-138-SA6-SB-4.0-5.0
				SL-138-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-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE	9.3 ug/Kg	SL-135-SA6-SB-4.0-5.0
		CHLOROFORM	0.14 ug/Kg	SL-138-SA6-SB-4.0-5.0
		METHYLENE CHLORIDE	2.1 ug/Kg	SL-149-SA5DN-SB-4.0-5.0
		TOLUENE	0.11 ug/Kg	SL-199-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-135-SA6-SB-4.0-5.0(RES)	ACETONE	15 ug/Kg	15U ug/Kg
SL-135-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.6 ug/Kg	7.6U ug/Kg
SL-135-SA6-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	3.9U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	4.4U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	6.9 ug/Kg	6.9U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	4.4U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.0U ug/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLF19B261714	7/19/2011 5:14:00 PM	Di-n-butylphthalate	7.6 ug/Kg	DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-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
DUP01-SA6-QC-071111(RES)	Di-n-butylphthalate	200 ug/Kg	200U ug/Kg
SL-149-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	85 ug/Kg	180U ug/Kg
SL-297-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	160 ug/Kg	180U ug/Kg
SL-298-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	190 ug/Kg	190U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 29 44	22 47 -	59.00-109.00 63.00-107.00 63.00-107.00	84 (20.00) 47 (20.00) 39 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	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-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex) 2,4-DB	- 258	- 301	24.00-141.00 10.00-201.00	118 (35.00) -	2,4,5-TP (Silvex) 2,4-DB	J(all detects)
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DICAMBA DINOSEB	0 0	- 0	10.00-190.00 10.00-46.00	200 (50.00) -	DICAMBA DINOSEB	J(all detects) R(all non-detects)
SL-297-SA6-SS-0.0-0.5MS (SL-297-SA6-SS-0.0-0.5)	2,4,5-T	1	-	10.00-156.00	-	2,4,5-T	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-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	2200 2747	7665 9486	49.00-123.00 49.00-123.00	21 (20.00) -	EFH (C21-C30) EFH (C30-C40)	No Qual, Diluted Out
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	0 0 0	0 762 0	49.00-123.00 49.00-123.00 49.00-123.00	- 200 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	No Qual, Diluted Out

Method: 8081A
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)	DIELDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	3356 2742 612	1843 2492 559	19.00-154.00 10.00-148.00 10.00-140.00	- - -	DIELDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_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-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual, Diluted Out
	4,4'-DDE	0	0	18.00-161.00	-	4,4'-DDE	
	4,4'-DDT	-4084	1830	10.00-176.00	-	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN II	2611	0	28.00-154.00	200 (50.00)	ENDOSULFAN II	
	ENDOSULFAN SULFATE	0	0	21.00-160.00	-	ENDOSULFAN SULFATE	
	ENDRIN	4558	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	HEPTACHLOR	0	0	13.00-126.00	-	HEPTACHLOR	
	HEPTACHLOR EPOXIDE	6197	0	13.00-157.00	200 (50.00)	HEPTACHLOR EPOXIDE	
	METHOXYCHLOR	0	0	32.00-147.00	-	METHOXYCHLOR	

Method: 8015B
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	m-Terphenyl	-	9	75.00-125.00	157 (20.00)	m-Terphenyl	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5MSD	O-TERPHENYL	69	11	75.00-125.00	144 (20.00)	O-TERPHENYL	
(SL-297-SA6-SS-0.0-0.5)	p-Terphenyl	-	46	75.00-125.00	62 (20.00)	p-Terphenyl	

Method: 8082
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	AROCLOR 1016	0	0	29.00-146.00	-	AROCLOR 1016	No Qual, Diluted Out
SL-297-SA6-SS-0.0-0.5MSD	AROCLOR 1260	0	0	39.00-149.00	-	AROCLOR 1260	
(SL-297-SA6-SS-0.0-0.5)							

Method: 6020
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 (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	CHROMIUM	175	-	75.00-125.00	-	CHROMIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_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-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ARSENIC ZINC	-30 -1864	-55 -661	75.00-125.00 75.00-125.00	- -	ARSENIC ZINC	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ANTIMONY CADMIUM COPPER LEAD NICKEL VANADIUM	64 36 180 1607 73 49	35 67 45 180 181 179	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - 21 (20.00) 40 (20.00) 37 (20.00) 28 (20.00)	ANTIMONY CADMIUM COPPER LEAD NICKEL VANADIUM	J(all detects) UJ(all non-detects) Cu, Pb, No Qual %R, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	MOLYBDENUM	226	-	75.00-125.00	52 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5MS (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	BARIUM	-32	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_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-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ALUMINUM	155	866	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	CALCIUM MAGNESIUM	-299 -	574 20	75.00-125.00 75.00-125.00	47 (20.00) -	CALCIUM MAGNESIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	IRON MANGANESE PHOSPHORUS	17569 - 333	3503 291 71	75.00-125.00 75.00-125.00 75.00-125.00	37 (20.00) 22 (20.00) 37 (20.00)	IRON MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE BENZOIC ACID DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE INDENO(1,2,3-CD)PYRENE PENTACHLOROPHENOL	- - - - - -	183 - 126 137 146 -	59.00-127.00 10.00-173.00 65.00-125.00 77.00-114.00 61.00-126.00 28.00-127.00	41 (30.00) 50 (30.00) - 44 (30.00) - 71 (30.00)	BENZO(G,H,I)PERYLENE BENZOIC ACID DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE INDENO(1,2,3-CD)PYRENE PENTACHLOROPHENOL	J(all detects)
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZIDINE	11 11 0	0 0 0	20.00-143.00 16.00-119.00 35.00-141.00	200 (30.00) 200 (30.00) -	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZIDINE	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_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-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4-DINITROTOLUENE	-	44	73.00-113.00	59 (30.00)	2,4-DINITROTOLUENE	J(all detects) UJ(all non-detects)
	2,6-DINITROTOLUENE	-	48	69.00-123.00	56 (30.00)	2,6-DINITROTOLUENE	
	2-CHLOROPHENOL	-	72	73.00-121.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	-	71	75.00-111.00	-	2-METHYLPHENOL	
	2-NITROPHENOL	-	53	74.00-115.00	43 (30.00)	2-NITROPHENOL	
	3-NITROANILINE	-	45	59.00-122.00	50 (30.00)	3-NITROANILINE	
	4,6-DINITRO-2-METHYLPHENOL	16	11	24.00-116.00	35 (30.00)	4,6-DINITRO-2-METHYLPHEN	
	4-METHYLPHENOL	-	67	71.00-111.00	-	4-METHYLPHENOL	
	4-NITROANILINE	-	48	52.00-112.00	36 (30.00)	4-NITROANILINE	
	ANILINE	33	21	35.00-95.00	44 (30.00)	ANILINE	
	BIS(2-CHLOROETHOXY)METHA	-	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	
	BIS(2-CHLOROISOPROPYL) ET	-	53	55.00-142.00	-	BIS(2-CHLOROISOPROPYL) E	
	HEXACHLOROCYCLOPENTADI	-	9	10.00-153.00	72 (30.00)	HEXACHLOROCYCLOPENTAD	
	HEXACHLOROETHANE	-	56	57.00-109.00	-	HEXACHLOROETHANE	

Method: 8270C SIM
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)	BIS(2-ETHYLHEXYL)PHTHALAT	485	-	39.00-167.00	45 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
	Butylbenzylphthalate	250	237	57.00-173.00	-	Butylbenzylphthalate	
	Di-n-octylphthalate	290	274	40.00-192.00	-	Di-n-octylphthalate	
	NAPHTHALENE	103	-	61.00-102.00	-	NAPHTHALENE	
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE	-325	-98	59.00-128.00	-	BENZO(A)ANTHRACENE	No Qual, Diluted Out
	BENZO(A)PYRENE	-354	-165	45.00-138.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-425	-261	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-347	-413	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-211	-26	57.00-153.00	-	BENZO(K)FLUORANTHENE	
	CHRYSENE	-429	-340	48.00-134.00	-	CHRYSENE	
	Diethylphthalate	0	0	70.00-136.00	-	Diethylphthalate	
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
	FLUORANTHENE	-1195	-781	26.00-166.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-269	-255	21.00-143.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-351	-281	12.00-165.00	-	PHENANTHRENE	
	PYRENE	-739	-519	15.00-153.00	-	PYRENE	
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	ANTHRACENE	44	49	73.00-115.00	-	ANTHRACENE	No Qual, Diluted Out
	DIBENZO(A,H)ANTHRACENE	5	14	22.00-133.00	-	DIBENZO(A,H)ANTHRACENE	
	Di-n-butylphthalate	178	32	65.00-148.00	-	Di-n-butylphthalate	

Method: 300.0
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-135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-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 -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_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-297-SA6-SS-0.0-0.5MS **SL-297-SA6-SS-0.0-0.5MSD** (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	TITANIUM	329	306	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
DUP01-SA6-QC-071111DUP (DUP01-SA6-QC-071111)	FLUORIDE	30	20.00	No Qual, OK by Difference
SL-297-SA6-SS-0.0-0.5DUP (SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	FLUORIDE	30	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	IRON	22	20.00	
	MANGANESE	25	20.00	
	SODIUM	23	20.00	J(all detects) UJ(all non-detects)
				Na, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ANTIMONY	53	20.00	
	COPPER	22	20.00	
	LEAD	59	20.00	J(all detects) UJ(all non-detects)
	MOLYBDENUM	119	20.00	
	SELENIUM	41	20.00	
	SILVER	63	20.00	
				Se, Ag, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	53	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-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-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	MERCURY	41	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11953AQ242146A (DUP01 -SA6-QC-071111 SL -149-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)	DINOSEB	7	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19426BQ222148A (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-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 -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	ANTIMONY	64	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19408DQ220508	ALUMINUM	146	-	80.00-120.00	-	ALUMINUM	
(DUP01 -SA6-QC-071111	IRON	124	-	80.00-120.00	-	IRON	
SL -135-SA6-SB-4.0-5.0	MAGNESIUM	127	-	80.00-120.00	-	MAGNESIUM	
SL -138-SA6-SB-4.0-5.0 SL -138-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 -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)							No Qual, SRM within QC Limits

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9LFLCSQ261745 (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-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 -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	BENZO(A)PYRENE	130	-	58.00-129.00	-	BENZO(A)PYRENE	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20408AQ220410 (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-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 -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	TITANIUM	133	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB16Q211423A LCSB16Y211251A (SL-135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -149-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA6-QC-071111	n-Triacontane-d62	41	50.00-150.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-149-SA6-SS-0.0-0.5	ACETONE	152	42.00-138.00	All Target Analytes	J(all detects)
SL-292-SA6-SS-0.0-0.5	n-Triacontane-d62	46	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5	n-Triacontane-d62	1	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-149-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	176	20.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA6-QC-071111	2,4-Dichlorophenylacetic acid	358	36.00-156.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_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: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
FLUORIDE	2.7	1.8	40	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
ALUMINUM	11200	9320	18	50.00	
CALCIUM	6820	4740	36	50.00	
IRON	27800	24900	11	50.00	
LITHIUM	17.1	14.6	16	50.00	
MAGNESIUM	4420	3660	19	50.00	
MANGANESE	336	267	23	50.00	
PHOSPHORUS	518	521	1	50.00	No Qualifiers Applied
POTASSIUM	2520	2080	19	50.00	
SODIUM	193	158	20	50.00	
STRONTIUM	30.6	26.0	16	50.00	
TIN	4.79	4.67	3	50.00	
TITANIUM	706	702	1	50.00	
Zirconium	4.88	4.22	15	50.00	
BORON	4.99 U	4.95	200	50.00	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
ANTIMONY	1.29	1.35	5	50.00	
BARIUM	75.2	69.9	7	50.00	
BERYLLIUM	0.418	0.320	27	50.00	
CADMIUM	2.39	1.85	25	50.00	
CHROMIUM	34.4	28.0	21	50.00	
COBALT	9.83	8.65	13	50.00	
COPPER	50.3	62.2	21	50.00	
LEAD	78.3	84.8	8	50.00	No Qualifiers Applied
MOLYBDENUM	5.63	7.74	32	50.00	
NICKEL	17.5	14.3	20	50.00	
SELENIUM	0.319	0.376	16	50.00	
SILVER	0.197	0.129	42	50.00	
THALLIUM	0.193	0.150	25	50.00	
VANADIUM	36.0	28.7	23	50.00	
ZINC	796	611	26	50.00	
ARSENIC	8.24	4.82	52	50.00	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
HEXAVALENT CHROMIUM	4.8	2.9	49	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MERCURY	0.413	0.332	22	50.00	No Qualifiers Applied

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
METHANOL	500 U	160	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
EFH (C15-C20)	42	44	5	50.00	
EFH (C21-C30)	450	500	11	50.00	No Qualifiers Applied
EFH (C30-C40)	830	870	5	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
4,4'-DDT	200	160	22	50.00	No Qualifiers Applied
4,4'-DDE	34 U	41	200	50.00	
DIELDRIN	60	34 U	200	50.00	J(all detects)
ENDOSULFAN II	34 U	36	200	50.00	UJ(all non-detects)
ENDRIN ALDEHYDE	34 U	12	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
AROCLOR 1254	2600	0.70	200	50.00	J(all detects)
Aroclor 5460	3300	3.3 U	200	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
2,4,5-T	0.62	0.53 U	200	50.00	J(all detects)
2,4,5-TP (Silvex)	0.17 U	0.40	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
Di-n-butylphthalate	160	200	22	50.00	No Qualifiers Applied
NAPHTHALENE	17 U	50	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
CARBAZOLE	27	150	139	50.00	J(all detects) UJ(all non-detects)
DIBENZOFURAN	170 U	21	200	50.00	
N-NITROSODIPHENYLAMINE	170 U	140	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
PH	7.90	7.75	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	BORON	J	4.95	24.7	PQL	mg/Kg	J (all detects)
	TIN	J	4.67	9.88	PQL	mg/Kg	
	Zirconium	J	4.22	4.94	PQL	mg/Kg	
SL-135-SA6-SB-4.0-5.0	BORON	J	3.31	28.7	PQL	mg/Kg	J (all detects)
	SODIUM	J	103	115	PQL	mg/Kg	
	TIN	J	3.46	11.5	PQL	mg/Kg	
	Zirconium	J	4.69	5.74	PQL	mg/Kg	
SL-138-SA6-SB-4.0-5.0	SODIUM	J	72.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	3.30	5.24	PQL	mg/Kg	
SL-138-SA6-SB-9.0-10.0	TIN	J	3.30	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.47	PQL	mg/Kg	
SL-149-SA5DN-SB-4.0-5.0	BORON	J	7.53	26.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.41	10.8	PQL	mg/Kg	
SL-149-SA6-SS-0.0-0.5	TIN	J	3.08	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.26	5.07	PQL	mg/Kg	
SL-199-SA5DN-SB-4.0-5.0	TIN	J	3.26	11.4	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-9.0-10.0	TIN	J	3.05	10.8	PQL	mg/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	TIN	J	3.11	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.11	PQL	mg/Kg	
SL-297-SA6-SS-0.0-0.5	TIN	J	4.79	9.99	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.88	4.99	PQL	mg/Kg	
SL-298-SA6-SS-0.0-0.5	TIN	J	3.47	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.46	5.08	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	SELENIUM	J	0.376	0.388	PQL	mg/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	SELENIUM	J	0.166	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0830	0.112	PQL	mg/Kg	
SL-138-SA6-SB-4.0-5.0	SELENIUM	J	0.117	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0298	0.104	PQL	mg/Kg	
SL-138-SA6-SB-9.0-10.0	CADMIUM	J	0.0529	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0714	0.425	PQL	mg/Kg	
	SILVER	J	0.0371	0.106	PQL	mg/Kg	
SL-149-SA5DN-SB-4.0-5.0	SELENIUM	J	0.133	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0646	0.105	PQL	mg/Kg	
SL-149-SA6-SS-0.0-0.5	ANTIMONY	J	0.179	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.397	PQL	mg/Kg	
	SILVER	J	0.0746	0.0993	PQL	mg/Kg	
SL-199-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.135	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.458	PQL	mg/Kg	
	SILVER	J	0.0436	0.114	PQL	mg/Kg	
SL-199-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0953	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0894	0.444	PQL	mg/Kg	
	SILVER	J	0.0386	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-292-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.238 0.0759	0.405 0.101	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-297-SA6-SS-0.0-0.5	SELENIUM	J	0.319	0.384	PQL	mg/Kg	J (all detects)
SL-298-SA6-SS-0.0-0.5	SELENIUM	J	0.153	0.394	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA6-SB-4.0-5.0	MERCURY	J	0.0206	0.114	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	MERCURY	J	0.0102	0.104	PQL	mg/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	MERCURY	J	0.0820	0.0998	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	METHANOL	J	160	500	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	EFH (C15-C20)	J	44	120	PQL	mg/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.47 0.70	1.4 1.4	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.81	1.3	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	EFH (C15-C20)	J	5.5	13	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.4	12	PQL	mg/Kg	J (all detects)
SL-297-SA6-SS-0.0-0.5	EFH (C15-C20)	J	42	120	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	ENDRIN ALDEHYDE	J	12	34	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	Chlordane	J	2.3	3.4	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.26	0.34	PQL	ug/Kg	
	HEPTACHLOR	J	0.13	0.17	PQL	ug/Kg	
SL-292-SA6-SS-0.0-0.5	4,4'-DDD	J	3.4	8.7	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	2.6	8.7	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	Chlordane	J	39	69	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	5.8	6.9	PQL	ug/Kg	
	MIREX	J	1.8	6.9	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	AROCLOR 1254	J	0.70	1.7	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	2,4-DB	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.077	0.17	PQL	ug/Kg	J (all detects)
SL-298-SA6-SS-0.0-0.5	DICAMBA	J	0.69	1.2	PQL	ug/Kg	J (all detects)
	MCPA	J	190	250	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA6-SB-4.0-5.0	TOLUENE	J	0.12	3.9	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	TOLUENE	J	0.14	4.4	PQL	ug/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.4	PQL	ug/Kg	J (all detects)
SL-199-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.0	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	ACENAPHTHENE	J	89	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	28	170	PQL	ug/Kg	
	CARBAZOLE	J	150	170	PQL	ug/Kg	
	DIBENZOFURAN	J	21	170	PQL	ug/Kg	
	FLUORENE	J	44	170	PQL	ug/Kg	
	N-NITROSODIPHENYLAMINE	J	140	170	PQL	ug/Kg	
SL-135-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	390	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	360	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	370	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	22	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	18	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	
	CHRYSENE	J	23	170	PQL	ug/Kg	
	FLUORANTHENE	J	36	170	PQL	ug/Kg	
SL-199-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	370	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	ACENAPHTHENE	J	66	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	41	170	PQL	ug/Kg	
	Butylbenzylphthalate	J	25	170	PQL	ug/Kg	
	DIBENZOFURAN	J	26	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	130	170	PQL	ug/Kg	
	FLUORENE	J	60	170	PQL	ug/Kg	
SL-297-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	160	340	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	27	170	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	140	170	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	100	170	PQL	ug/Kg	
	CARBAZOLE	J	41	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	36	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	130	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	BIS(2-ETHYLHEXYL)PHTHALATE	J	150	180	PQL	ug/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	NAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	8.2	17	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	69	180	PQL	ug/Kg	
	Di-n-butylphthalate	J	85	180	PQL	ug/Kg	
	Di-n-octylphthalate	J	64	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	10	17	PQL	ug/Kg	
	PHENANTHRENE	J	8.5	17	PQL	ug/Kg	
SL-199-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	21	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	Di-n-octylphthalate	J	68	180	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-297-SA6-SS-0.0-0.5	ACENAPHTHENE	J	11	17	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	9.1	17	PQL	ug/Kg	
	Di-n-butylphthalate	J	160	180	PQL	ug/Kg	
	FLUORENE	J	7.5	17	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	ACENAPHTHENE	J	15	17	PQL	ug/Kg	J (all detects)
	FLUORENE	J	8.0	17	PQL	ug/Kg	

LDC #: 26407P4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11
SDG #: DE197 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OC
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-148-SA5DN-SB-4.0-5.0	11	DUP01-SA6-QC-071111	21		31	
2	SL-199-SA5DN-SB-4.0-5.0	12	SL-297-SA6-SS-0.0-0.5MS	22		32	
3	SL-199-SA5DN-SB-9.0-10.0	13	SL-297-SA6-SS-0.0-0.5MSD	23		33	
4	SL-135-SA6-SB-4.0-5.0	14	SL-297-SA6-SS-0.0-0.5DUP	24		34	
5	SL-138-SA6-SB-4.0-5.0	15		25		35	
6	SL-138-SA6-SB-9.0-10.0	16		26		36	
7	SL-149-SA6-SS-0.0-0.5	17		27		37	
8	SL-297-SA6-SS-0.0-0.5	18		28		38	
9	SL-292-SA6-SS-0.0-0.5	19		29		39	
10	SL-298-SA6-SS-0.0-0.5	20		30		40	

Notes:

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6340796BKG Matrix Spike Lab Sample ID: 6340797MS Matrix Spike Duplicate Lab Sample ID: 6340798MSD
% Solids for Sample: 99.2
Batch Id(s): P19408D, P19426B, P19411G, P20408A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		11183.5985		11496.0373		12878.8081		201.6129	195.7407	MG/KG	155		866		11			20	P
Antimony	121	1.2849		2.0337		1.7115		1.1744	1.2097	MG/KG	64	N	35	N	17		75 - 125	20	MS
Arsenic	75	8.2373		7.6593		7.1310		1.9574	2.0161	MG/KG	-30		-55		7			20	MS
Barium	137	75.1344		72.0130		84.7581		9.7870	10.0806	MG/KG	-32		95		16			20	MS
Beryllium	9	0.4182		1.0932		1.1829		0.7830	0.8065	MG/KG	86		95		8		75 - 125	20	MS
Boron		0.3593	U	178.0151		187.9923		201.6129	195.7407	MG/KG	88		96		5		84 - 115	20	P
Cadmium	111	2.3867		2.7345		3.0645		0.9787	1.0081	MG/KG	36	N	67	N	11		75 - 125	20	MS
Calcium		6818.9147		5612.6774		9066.9365		403.2258	391.4814	MG/KG	-299		574		47	*		20	P
Chromium	52	34.4086		51.4994		45.9274		9.7870	10.0806	MG/KG	175	N	114		11		75 - 125	20	MS
Cobalt	59	9.8214		54.3963		58.3669		48.9352	50.4032	MG/KG	91		96		7		75 - 125	20	MS
Copper	63	50.2880		67.9024		54.8185		9.7870	10.0806	MG/KG	180		45		21	*		20	MS
Iron		27817.6451		45528.3165		31246.0363		100.8065	97.8703	MG/KG	17569		3503		37	*		20	P
Lead	208	78.2834		125.4698		83.7298		2.9361	3.0242	MG/KG	1607		180		40	*		20	MS
Lithium		17.0742		115.3730		116.4324		100.8065	97.8703	MG/KG	98		102		1		82 - 114	20	P
Magnesium		4419.8249		4616.4677		4458.0870		201.6129	195.7407	MG/KG	98		20		3			20	P
Manganese		335.9400		381.7782		478.2513		50.4032	48.9352	MG/KG	91		291		22	*		20	P
Mercury		0.4130		0.5772		0.5430		0.1630	0.1671	MG/KG	101		78		6		65 - 135	20	CV
Molybdenum	98	5.6260		27.7169		16.3387		9.7870	10.0806	MG/KG	226	N	106		52	*	75 - 125	20	MS
Nickel	60	17.5000		24.6046		35.7661		9.7870	10.0806	MG/KG	73	N	181	N	37	*	75 - 125	20	MS
Phosphorus		517.5663		853.2964		587.1134		100.8065	97.8703	MG/KG	333		71		37	*		20	P
Potassium		2514.6868		3387.7591		3532.9099		1008.0645	978.7034	MG/KG	87		104		4		75 - 125	20	P
Selenium	78	0.3184	B	2.2667		2.2137		1.9574	2.0161	MG/KG	100		94		2		75 - 125	20	MS
Silver	107	0.1966		9.4582		10.1331		9.7870	10.0806	MG/KG	95		99		7		75 - 125	20	MS
Sodium		192.5942		1181.5282		1249.7543		1008.0645	978.7034	MG/KG	98		108		6		75 - 125	20	P
Strontium		30.5943		120.1512		130.7606		100.8065	97.8703	MG/KG	89		102		8		75 - 115	20	P
Thallium	203	0.1934		0.5471		0.5319		0.3915	0.4032	MG/KG	90		84		3		75 - 125	20	MS
Tin		4.7858	B	378.0433		381.6151		403.2258	391.4814	MG/KG	93		96		1		80 - 110	20	P
Titanium		705.5121		1027.2706		1004.8632		97.8703	97.8703	MG/KG	329		306		2			20	P
Vanadium	51	36.0023		40.7924		54.0726		9.7870	10.0806	MG/KG	49	N	179	N	28	*	75 - 125	20	MS
Zinc	66	795.8909		613.3534		729.1331		9.7870	10.0806	MG/KG	-1865		-662		17			20	MS
Zirconium		4.8786	B	99.2056		102.0494		100.8065	97.8703	MG/KG	94		99		3		75 - 125	20	P

RPD out
RPD
RPD
RPD

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

CSXBL

Background Lab Sample ID: 6340796BKG
% Solids for Duplicate: 99.1
Batch ID(s): P19408D, P19426B, P19411G, P20408A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6340799DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			11183.5985		10657.1078		5		P
Antimony	121		1.2849		2.2100		53	*	MS
Arsenic	75		8.2373		7.2522		13		MS
Barium	137		75.1344		84.7162		12		MS
Beryllium	9	0.1	0.4182		0.3877		8		MS
Boron			0.3593	U	0.3489	U			P
Cadmium	111		2.3867		2.4368		2		MS
Calcium			6818.9147		8287.0997		19		P
Chromium	52		34.4086		40.5940		16		MS
Cobalt	59		9.8214		10.3831		6		MS
Copper	63		50.2880		62.9459		22	*	MS
Iron			27817.6451		22313.3317		22	*	P
Lead	208		78.2834		143.9400		59	*	MS
Lithium			17.0742		16.4159		4		P
Magnesium			4419.8249		4262.5271		4		P
Manganese			335.9400		261.8913		25	*	P
Mercury		0.1	0.4130		0.2712		41	*	CV
Molybdenum	98		5.6260		22.2162		119	*	MS
Nickel	60		17.5000		18.0114		3		MS
Phosphorus			517.5663		522.1038		1		P
Potassium			2514.6868		2458.6345		2		P
Selenium	78		0.3184	B	0.2099	B	41		MS
Silver	107	0.1	0.1966		0.1021		63		MS
Sodium		99.8	192.5942		153.3557		23		P
Strontium			30.5943		27.2148		12		P
Thallium	203	0.1	0.1934		0.1581		20		MS
Tin			4.7858	B	4.0778	B	16		P
Titanium			705.5121		664.0867		6		P
Vanadium	51		36.0023		35.9801		0		MS
Zinc	66		795.8909		703.2219		12		MS
Zirconium			4.8786	B	4.0894	B	18		P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6340796BKG Serial Dilution Lab Sample ID: 6340796L
Batch ID(s): P19408D, P19426B, P20408A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		112050.7100		117261.5000		5		P
Antimony	121	6.6920		5.5000		18		MS
Arsenic	75	42.9000		44.1950		3		MS
Barium	137	391.3000		393.1000		0		MS
Beryllium	9	2.1780		2.1235	B	3		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	12.4300		13.3800		8		MS
Calcium		68320.0700		73247.5000		7		P
Chromium	52	179.2000		172.7500		4		MS
Cobalt	59	51.1500		49.4950		3		MS
Copper	63	261.9000		270.9000		3		MS
Iron		55742.1100		57651.1500		3		P
Lead	208	407.7000		418.9500		3		MS
Lithium		171.0700		189.5500		11		P
Magnesium		44283.1100		47070.4000		6		P
Manganese		3365.8500		3495.8000		4		P
Molybdenum	98	29.3000		28.6700		2		MS
Nickel	60	91.1400		95.7500		5		MS
Phosphorus		5185.6000		5397.8500		4		P
Potassium		25195.1500		26800.7000		6		P
Selenium	78	1.6580	B	1.4500	U	100		MS
Silver	107	1.0240		1.1730	B	15		MS
Sodium		1929.6400		1956.5500	B	1		P
Strontium		306.5300		310.3500		1		P
Thallium	203	1.0070		0.8670	B	14		MS
Tin		47.9500	B	47.1000	B	2		P
Titanium		7208.6400		7324.1500		2		P
Vanadium	51	187.5000		191.0000		2		MS
Zinc	66	829.0000		720.5000		13	E	MS
Zirconium		48.8800	B	46.5000	B	5		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: DE197 4212
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE210

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
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3050B	6010B	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3050B	6020	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3060A	7199	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8081A	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8082	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8151A	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8270C	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8270C SIM	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	300.0	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	314.0	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	7471A	III
27-Jul-2011	TB-072711	6358396	TB	5030B	8015M	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3060A	7199	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3060A	7199	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	7471A	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3050B	6010B	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3050B	6020	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3060A	7199	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8081A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8082	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8151A	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8270C	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8270C SIM	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	300.0	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	314.0	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3050B	6010B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3050B	6020	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3060A	7199	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8015B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8015M	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8082	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8270C	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8270C SIM	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	5035	8015M	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	300.0	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	314.0	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	6850	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	8015B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3050B	6010B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3050B	6020	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3060A	7199	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8082	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8270C	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8270C SIM	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	5035	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	300.0	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	314.0	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	8015B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3050B	6010B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3050B	6020	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3060A	7199	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8081A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8082	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8151A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8270C	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8270C SIM	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	300.0	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	314.0	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	7471A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MSD	P358385M320038A	MSD	3550B	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MSD	P358385M320653A	MSD	3550B	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MS	P358385R320014A	MS	3550B	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MS	P358385R320058A	MS	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3050B	6010B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3050B	6020	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3060A	7199	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8015M	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8082	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8270C	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8270C SIM	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	5035	8015M	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	300.0	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	314.0	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	7471A	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	8015M	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3050B	6010B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3050B	6020	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3060A	7199	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8015M	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8082	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8270C	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8270C SIM	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	5035	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	300.0	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	314.0	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	7471A	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	8015B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3050B	6010B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3050B	6020	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3060A	7199	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8015B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8082	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8270C	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8270C SIM	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	5035	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	300.0	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	314.0	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	7471A	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	8015B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3050B	6010B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3050B	6020	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3060A	7199	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8015B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8082	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8270C SIM	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	5035	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	300.0	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	314.0	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	7471A	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	8015B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3005A	6010B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3020A	6020	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8015B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8082	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8270C	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8270C SIM	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3520C	1625C	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8260B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8260B SIM	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	8330	8330A	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	300.0	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	314.0	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	7199	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	8015B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	7470A	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	9012B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3050B	6010B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3050B	6020	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3060A	7199	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3546	1625C	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8082	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8270C	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8270C SIM	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	5035	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	8330	8330A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	7471A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8315A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	9012B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0DU	P358394D270527B	DUP	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0DU	P358394D270843B	DUP	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0MS	P358394R270541B	MS	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0MS	P358394R270929B	MS	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3050B	6010B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3050B	6020	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3546	1625C	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8082	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8270C	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8270C SIM	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	5035	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	8330	8330A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	7471A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8315A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	9012B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **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
Nitrate-NO3	1.1	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0035	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
SODIUM	0.295	J	0.0647	MDL	1.00	PQL	mg/L	J	Z
STRONTIUM	0.00026	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z
Zirconium	0.0049	J	0.0042	MDL	0.0500	PQL	mg/L	U	B, B

Method Category: METALS

Method: 6010B **Matrix:** SO

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
POTASSIUM	2850		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	98.5	J	6.12	MDL	103	PQL	mg/Kg	U	F
TIN	3.96	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.79	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

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
POTASSIUM	3300		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	94.4	J	6.05	MDL	102	PQL	mg/Kg	U	F
TIN	3.02	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **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
BORON	3.83	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
POTASSIUM	2520		11.3	MDL	50.0	PQL	mg/Kg	J	Q
SODIUM	124		5.96	MDL	100	PQL	mg/Kg	U	F
TIN	2.97	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

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
BORON	4.35	J	0.354	MDL	4.92	PQL	mg/Kg	J	Z
POTASSIUM	2670		11.1	MDL	49.2	PQL	mg/Kg	J	Q
SODIUM	110		5.85	MDL	98.3	PQL	mg/Kg	U	F
TIN	3.31	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.452	MDL	4.92	PQL	mg/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
POTASSIUM	3330		11.9	MDL	52.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.37	J	0.484	MDL	5.26	PQL	mg/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
POTASSIUM	4300		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	3.08	J	0.364	MDL	11.4	PQL	mg/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
POTASSIUM	3120		11.9	MDL	52.6	PQL	mg/Kg	J	Q
TIN	3.71	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.96	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **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
POTASSIUM	3270		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.87	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.86	J	0.481	MDL	5.23	PQL	mg/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
POTASSIUM	3940		12.5	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.92	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

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
BORON	3.25	J	0.365	MDL	5.07	PQL	mg/Kg	J	Z
POTASSIUM	2870		11.5	MDL	50.7	PQL	mg/Kg	J	Q
TIN	2.92	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

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
POTASSIUM	2890		11.2	MDL	49.4	PQL	mg/Kg	J	Q
SODIUM	108		5.88	MDL	98.8	PQL	mg/Kg	U	F
TIN	2.71	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.454	MDL	4.94	PQL	mg/Kg	J	Z

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
POTASSIUM	3120		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	3.29	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0725	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.89		0.0514	MDL	0.103	PQL	mg/Kg	J	FD

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.8		0.109	MDL	0.411	PQL	mg/Kg	J	E

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.370		0.0761	MDL	0.206	PQL	mg/Kg	J	Q, FD
ARSENIC	5.52		0.0822	MDL	0.411	PQL	mg/Kg	J	FD
CADMIUM	1.06		0.0452	MDL	0.103	PQL	mg/Kg	J	FD
CHROMIUM	24.5		0.123	MDL	0.411	PQL	mg/Kg	J	A
COPPER	57.7		0.0822	MDL	0.411	PQL	mg/Kg	J	E, FD
LEAD	59.4		0.0105	MDL	0.206	PQL	mg/Kg	J	E, FD
NICKEL	31.5		0.103	MDL	0.411	PQL	mg/Kg	J	Q, FD
SILVER	0.506		0.0146	MDL	0.103	PQL	mg/Kg	J	E
VANADIUM	34.1		0.0226	MDL	0.103	PQL	mg/Kg	J	A

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.576		0.0494	MDL	0.0988	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 8:20:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.4		0.105	MDL	0.395	PQL	mg/Kg	J	E

Sample ID: SL-009-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 8:20:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q, FD
ARSENIC	3.12		0.0791	MDL	0.395	PQL	mg/Kg	J	FD
CADMIUM	0.613		0.0435	MDL	0.0988	PQL	mg/Kg	J	FD
CHROMIUM	18.4		0.119	MDL	0.395	PQL	mg/Kg	J	A
COPPER	12.2		0.0791	MDL	0.395	PQL	mg/Kg	J	E, FD
LEAD	27.3		0.0101	MDL	0.198	PQL	mg/Kg	J	E, FD
NICKEL	13.7		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, FD
SILVER	0.513		0.0140	MDL	0.0988	PQL	mg/Kg	J	E
VANADIUM	30.0		0.0217	MDL	0.0988	PQL	mg/Kg	J	A

Sample ID: SL-017-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 9:14:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 9:14:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	75.6		0.106	MDL	0.400	PQL	mg/Kg	J	E

Sample ID: SL-017-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 9:14:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0741	U	0.0741	MDL	0.200	PQL	mg/Kg	UJ	Q
CHROMIUM	30.2		0.120	MDL	0.400	PQL	mg/Kg	J	A
COPPER	16.2		0.0801	MDL	0.400	PQL	mg/Kg	J	E
LEAD	13.3		0.0102	MDL	0.200	PQL	mg/Kg	J	E
NICKEL	9.96		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0768	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, E
VANADIUM	28.0		0.0220	MDL	0.100	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71.9		0.108	MDL	0.409	PQL	mg/Kg	J	E

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0757	MDL	0.204	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.3		0.123	MDL	0.409	PQL	mg/Kg	J	A
COPPER	13.5		0.0818	MDL	0.409	PQL	mg/Kg	J	E
LEAD	34.3		0.0104	MDL	0.204	PQL	mg/Kg	J	E
NICKEL	11.3		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.107		0.0145	MDL	0.102	PQL	mg/Kg	J	E
VANADIUM	31.2		0.0225	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.9		0.114	MDL	0.429	PQL	mg/Kg	J	E

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
CHROMIUM	18.0		0.129	MDL	0.429	PQL	mg/Kg	J	A
COPPER	9.76		0.0858	MDL	0.429	PQL	mg/Kg	J	E
LEAD	5.46		0.0109	MDL	0.215	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	12.0		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
VANADIUM	39.8		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-069-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 8:45:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 8:45:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.121	MDL	0.455	PQL	mg/Kg	J	E

Sample ID: SL-069-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 8:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0842	MDL	0.228	PQL	mg/Kg	J	Z, Q
CHROMIUM	27.7		0.137	MDL	0.455	PQL	mg/Kg	J	A
COPPER	13.8		0.0910	MDL	0.455	PQL	mg/Kg	J	E
LEAD	7.98		0.0116	MDL	0.228	PQL	mg/Kg	J	E
NICKEL	17.7		0.114	MDL	0.455	PQL	mg/Kg	J	Q
SILVER	0.0308	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, E
VANADIUM	56.8		0.0250	MDL	0.114	PQL	mg/Kg	J	A

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 11:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0901	J	0.0598	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 11:05:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.0		0.109	MDL	0.413	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0764	U	0.0764	MDL	0.206	PQL	mg/Kg	UJ	Q
CHROMIUM	20.3		0.124	MDL	0.413	PQL	mg/Kg	J	A
COPPER	29.1		0.0825	MDL	0.413	PQL	mg/Kg	J	E
LEAD	6.79		0.0105	MDL	0.206	PQL	mg/Kg	J	E
NICKEL	18.0		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0295	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, E
VANADIUM	39.3		0.0227	MDL	0.103	PQL	mg/Kg	J	A

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	83.5		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	U	0.0782	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	18.3		0.127	MDL	0.423	PQL	mg/Kg	J	A
COPPER	9.46		0.0845	MDL	0.423	PQL	mg/Kg	J	E
LEAD	5.52		0.0108	MDL	0.211	PQL	mg/Kg	J	E
NICKEL	11.6		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0241	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, E
VANADIUM	38.1		0.0232	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 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
BARIUM	87.9		0.112	MDL	0.424	PQL	mg/Kg	J	E

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 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	0.108	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.4		0.127	MDL	0.424	PQL	mg/Kg	J	A
COPPER	11.9		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	8.45		0.0108	MDL	0.212	PQL	mg/Kg	J	E
NICKEL	12.4		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0321	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, E
VANADIUM	43.2		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 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
SELENIUM	0.107	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.7		0.110	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 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	0.158	J	0.0765	MDL	0.207	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0626	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	11.3		0.124	MDL	0.413	PQL	mg/Kg	J	A
COPPER	4.98		0.0827	MDL	0.413	PQL	mg/Kg	J	E
LEAD	3.37		0.0105	MDL	0.207	PQL	mg/Kg	J	E
NICKEL	6.82		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0147	U	0.0147	MDL	0.103	PQL	mg/Kg	UJ	E
VANADIUM	26.5		0.0227	MDL	0.103	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.2		0.108	MDL	0.407	PQL	mg/Kg	J	E

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0753	MDL	0.203	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.5		0.122	MDL	0.407	PQL	mg/Kg	J	A
COPPER	12.6		0.0814	MDL	0.407	PQL	mg/Kg	J	E
LEAD	6.21		0.0104	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	11.2		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0299	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, E
VANADIUM	40.0		0.0224	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0951	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.120	MDL	0.452	PQL	mg/Kg	J	E

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0835	U	0.0835	MDL	0.226	PQL	mg/Kg	UJ	Q
CHROMIUM	24.0		0.135	MDL	0.452	PQL	mg/Kg	J	A
COPPER	11.0		0.0903	MDL	0.452	PQL	mg/Kg	J	E
LEAD	6.83		0.0115	MDL	0.226	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected: 7/27/2011 2:49:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	17.7		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0375	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, E
VANADIUM	47.9		0.0248	MDL	0.113	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

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
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.59	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.72	J	0.20	MDL	1.0	PQL	mg/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
HEXAVALENT CHROMIUM	0.76	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **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
MERCURY	0.000029	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

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
MERCURY	0.0528	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

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
MERCURY	0.0573	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

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
MERCURY	0.0930	J	0.0069	MDL	0.0978	PQL	mg/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
MERCURY	0.0198	J	0.0076	MDL	0.108	PQL	mg/Kg	U	F

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0073	MDL	0.104	PQL	mg/Kg	U	F

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
MERCURY	0.0594	J	0.0071	MDL	0.102	PQL	mg/Kg	J	Z

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
MERCURY	0.0085	J	0.0078	MDL	0.111	PQL	mg/Kg	U	B, F

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.30		0.482	MDL	0.964	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **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
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-089-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.93	J	0.89	MDL	2.7	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	140		4.2	MDL	22	PQL	ug/Kg	J	FD

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	4.5	U	4.5	MDL	4.5	PQL	ug/Kg	UJ	FD
Chlordane	4.1	U	4.1	MDL	17	PQL	ug/Kg	UJ	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	66		3.4	MDL	17	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	13		0.68	MDL	3.5	PQL	ug/Kg	J	FD
Chlordane	27	J	8.2	MDL	35	PQL	ug/Kg	J	Z, FD

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4300		340	MDL	1700	PQL	ug/Kg	J	FD
AROCLOR 1260	400	U	400	MDL	1700	PQL	ug/Kg	UJ	FD
Aroclor 5460	9000		1000	MDL	3400	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	FD
AROCLOR 1260	14		0.40	MDL	1.7	PQL	ug/Kg	J	FD
Aroclor 5460	17		1.0	MDL	3.4	PQL	ug/Kg	J	FD

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	33	J	10	MDL	34	PQL	ug/Kg	J	Z

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
Aroclor 5460	2.0	J	1.0	MDL	3.4	PQL	ug/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
Aroclor 5460	2.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *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	2.6	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix:** SO

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
2,4-DB	3.4		0.63	MDL	1.7	PQL	ug/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
2,4-DB	1.2	J	0.64	MDL	1.7	PQL	ug/Kg	J	Z, Q, Q, FD
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	Q, Q

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
MCPP	150	J	76	MDL	250	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	16	PQL	ug/L	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	24	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
PYRENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***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
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	R	Q, Q
3-NITROANILINE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4-CHLOROANILINE	69	U	69	MDL	170	PQL	ug/Kg	UJ	Q
4-NITROANILINE	69	U	69	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	510	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
Di-n-butylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	17	MDL	340	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	35	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	41	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	65	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	24	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 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
BENZO(A)PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	23	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	30	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *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	27	J	17	MDL	350	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.062	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.080	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Dimethylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.50	J	0.053	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***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	2.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	4.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	5.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	4.3	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	17		3.4	MDL	8.6	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	3.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	5.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	6.3	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	3.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	22		3.4	MDL	8.6	PQL	ug/Kg	J	FD
FLUORANTHENE	4.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PHENANTHRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PYRENE	6.1	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	3.2	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
ANTHRACENE	7.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.2	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
PHENANTHRENE	4.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.62	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.5	J	6.1	MDL	18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	7.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Dimethylphthalate	8.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.76	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 8:45:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

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-METHYLNAPHTHALENE	0.79	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.84	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	7.9	J	1.8	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.2	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.1	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.7	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
FLUORENE	4.1	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	4.9	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PHENANTHRENE	8.3	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PYRENE	8.5	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 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
ACENAPHTHYLENE	0.46	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.96	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 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
ANTHRACENE	1.4	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***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	3.5	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	4.6	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
CHRYSENE	4.9	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
FLUORANTHENE	5.3	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
PYRENE	5.5	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***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	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.8	MDL	21	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8330A **Matrix: SO**

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
Nitroglycerin	830	U	830	MDL	2500	PQL	ug/Kg	UJ	L

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
Nitroglycerin	910	U	910	MDL	2700	PQL	ug/Kg	UJ	L

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S

Method Category: VOA

Method: 8260B **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
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE210

Method Blank Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-072711

The 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(REA2)	BORON	0.0035 mg/L	0.0035U mg/L
EB-SA6-SB-072711(REA2)	Zirconium	0.0049 mg/L	0.0049U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408DB222152	8/4/2011 9:52:00 PM	ALUMINUM BORON CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	8.06 mg/Kg 0.427 mg/Kg 6.22 mg/Kg 2.83 mg/Kg 0.0451 mg/Kg 1.22 mg/Kg 0.0333 mg/Kg 1.70 mg/Kg	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-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

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA6-QC-072711(RES)	TIN	3.96 mg/Kg	3.96U mg/Kg
SL-009-SA6-SS-0.0-0.5(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-017-SA6-SS-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-028-SA6-SS-0.0-0.5(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-069-SA6-SB-4.0-5.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-069-SA6-SB-9.0-10.0(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-076-SA6-SB-2.0-3.0(RES)	TIN	3.71 mg/Kg	3.71U mg/Kg
SL-089-SA6-SB-4.0-5.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-089-SA6-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-117-SA6-SB-2.0-3.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-179-SA5DN-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	TIN	3.29 mg/Kg	3.29U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21426AB220423A	8/5/2011 4:23:00 AM	VANADIUM	0.0358 mg/Kg	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-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

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21013CB220815	8/1/2011 8:15:00 AM	MERCURY	0.00011 mg/L	EB-SA6-SB-072711

The 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)	MERCURY	0.000029 mg/L	0.000029U mg/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA6-SS-0.0-0.5MS SL-017-SA6-SS-0.0-0.5MSD (SL-017-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL	21	23	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-017-SA6-SS-0.0-0.5MS SL-017-SA6-SS-0.0-0.5MSD (SL-017-SA6-SS-0.0-0.5)	EFH (C12-C14)	0	0	49.00-123.00	-	EFH (C12-C14)	No Qual, Diluted Out
	EFH (C15-C20)	0	0	49.00-123.00	-	EFH (C15-C20)	
	EFH (C21-C30)	-6272	-6258	49.00-123.00	-	EFH (C21-C30)	
	EFH (C30-C40)	-38230	-44001	49.00-123.00	-	EFH (C30-C40)	
	EFH (C8-C11)	0	0	49.00-123.00	-	EFH (C8-C11)	

Method: 8081A
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)	ENDOSULFAN II	529	3517	28.00-154.00	148 (50.00)	ENDOSULFAN II	No Qual, Diluted Out
	ENDRIN ALDEHYDE	500	2580	10.00-148.00	135 (35.00)	ENDRIN ALDEHYDE	
	HEPTACHLOR EPOXIDE	1227	15336	13.00-157.00	170 (50.00)	HEPTACHLOR EPOXIDE	
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual Diluted Out
	4,4'-DDE	-62	36352	16.00-161.00	181 (50.00)	4,4'-DDE	
	4,4'-DDT	-191	62732	10.00-176.00	156 (50.00)	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	DIELDRIN	0	21726	19.00-154.00	200 (50.00)	DIELDRIN	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN SULFATE	0	0	21.00-160.00	-	ENDOSULFAN SULFATE	
	ENDRIN	519	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	gamma-BHC (Lindane)	0	-	10.00-140.00	200 (50.00)	gamma-BHC (Lindane)	
	HEPTACHLOR	0	312	13.00-126.00	200 (50.00)	HEPTACHLOR	
	METHOXYCHLOR	0	0	32.00-147.00	-	METHOXYCHLOR	

Method: 8151A
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)	DINOSEB	9	0	10.00-46.00	200 (35.00)	DINOSEB	J(all detects) R(all non-detects)
SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	2,4-DB	-	1	10.00-201.00	157 (50.00)	2,4-DB	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-009-SA6-SS-0.0-0.5MSD (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-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)	NICKEL	-	127	75.00-125.00	-	NICKEL	J(all detects)
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (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-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)	ANTIMONY ZINC	28 -	29 14	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x Sb post spike= 88%
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (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-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)	LEAD	231	30	75.00-125.00	-	LEAD	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (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-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)	BARIUM	37	297	75.00-125.00	22 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (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-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)	ALUMINUM CALCIUM	548 193	367 -	75.00-125.00 75.00-125.00	- -	ALUMINUM CALCIUM	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (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-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)	IRON MAGNESIUM MANGANESE	-1613 43 -8	-1628 -69 -34	75.00-125.00 75.00-125.00 75.00-125.00	- - -	IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (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-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)	PHOSPHORUS POTASSIUM TITANIUM	59 - -	30 70 62	75.00-125.00 75.00-125.00 75.00-125.00	- - -	PHOSPHORUS POTASSIUM TITANIUM	J(all detects) UJ(all non-detects) P, Ti, 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-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT Dimethylphthalate Di-n-butylphthalate FLUORANTHENE NAPHTHALENE	312 - 159 169 -	578 139 199 157 106	39.00-167.00 74.00-118.00 65.00-148.00 51.00-149.00 61.00-102.00	60 (30.00) - - - -	BIS(2-ETHYLHEXYL)PHTHALA Dimethylphthalate Di-n-butylphthalate FLUORANTHENE NAPHTHALENE	No Qual, Diluted Out
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	BENZO(K)FLUORANTHENE	43	36	57.00-153.00	-	BENZO(K)FLUORANTHENE	No Qual Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	HEXACHLOROCYCLOPENTADI	-	-	10.00-153.00	84 (30.00)	HEXACHLOROCYCLOPENTAD	J(all detects)
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE ANILINE BENZIDINE	0 0 0	10 - 0	28.00-109.00 18.00-116.00 35.00-141.00	200 (30.00) 200 (30.00) -	3,3'-DICHLOROBENZIDINE ANILINE BENZIDINE	J(all detects) R(all non-detects)
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL 3-NITROANILINE 4-CHLOROANILINE 4-NITROANILINE	- 14 10 20	17 56 - -	20.00-143.00 59.00-122.00 13.00-107.00 41.00-109.00	31 (30.00) 118 (30.00) 96 (30.00) 81 (30.00)	2,4-DINITROPHENOL 3-NITROANILINE 4-CHLOROANILINE 4-NITROANILINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA6-SS-0.0-0.5DUP (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 -089-SA6-SB-4.0-5.0 SL -089-SA6-SB-9.0-10.0 SL -117-SA6-SB-2.0-3.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA6-SS-0.0-0.5DUP (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 -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)	COPPER	26	20.00	J(all detects) UJ(all non-detects)
	LEAD	196	20.00	
	SILVER	24	20.00	

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12106AQ242049A P12106AY242131A (EB-SA6-SB-072711)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 133	- 110 133	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSQ262148 (EB-SA6-SB-072711)	ACENAPHTHENE FLUORENE	116 116	- -	74.00-109.00 75.00-114.00	- -	ACENAPHTHENE FLUORENE	J(all detects)
P0WALCSQ262148 P0WALCSY262221 (EB-SA6-SB-072711)	Dimethylphthalate	26	30	40.00-119.00	-	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSQ260445 P0WBLCSY260510 (EB-SA6-SB-072711)	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLETH	113 -	- 120	79.00-107.00 75.00-115.00	- -	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLET	J(all detects)
P0WBLCSY260510 (EB-SA6-SB-072711)	BENZOIC ACID	-	-	10.00-69.00	33 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y49Y211348A (EB-SA6-SB-072711)	2-Chloro-1,1,1-trifluoroethane	-	75	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	J(all detects) UJ(all non-detects)

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426AQ220426A (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-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)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408DQ222155 (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-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)	ALUMINUM TITANIUM	134 161	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-072711	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA6-SS-0.0 -0.5	n-Triacontane-d62	0	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP09-SA6-QC-072711	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-009-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	No Qual, Diluted Out

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	40 49	45.00-120.00 53.00-139.00	All Target Analytes	No Qual, Diluted Out

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-028-SA6-SS-0.0 -0.5	Terphenyl-d14	140	45.00-135.00	No Affected Compounds	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **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: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
ALUMINUM	12100	10700	12	50.00	No Qualifiers Applied
BORON	6.21	5.76	8	50.00	
CALCIUM	3490	4490	25	50.00	
IRON	18400	18400	0	50.00	
LITHIUM	20.9	17.7	17	50.00	
MAGNESIUM	4010	3530	13	50.00	
MANGANESE	298	294	1	50.00	
PHOSPHORUS	464	472	2	50.00	
POTASSIUM	3300	2850	15	50.00	
SODIUM	94.4	98.5	4	50.00	
STRONTIUM	18.9	20.0	6	50.00	
TIN	3.02	3.96	27	50.00	
TITANIUM	1030	884	15	50.00	
Zirconium	3.31	2.79	17	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
BARIUM	97.4	98.8	1	50.00	No Qualifiers Applied
BERYLLIUM	0.419	0.359	15	50.00	
CHROMIUM	18.4	24.5	28	50.00	
COBALT	5.01	6.58	27	50.00	
SELENIUM	0.113	0.0725	44	50.00	
SILVER	0.513	0.506	1	50.00	
THALLIUM	0.222	0.187	17	50.00	
VANADIUM	30.0	34.1	13	50.00	
ZINC	115	172	40	50.00	
ANTIMONY	0.123	0.370	100	50.00	J(all detects)
ARSENIC	3.12	5.52	56	50.00	
CADMIUM	0.613	1.06	53	50.00	
COPPER	12.2	57.7	130	50.00	
LEAD	27.3	59.4	74	50.00	
MOLYBDENUM	0.576	3.89	148	50.00	
NICKEL	13.7	31.5	79	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
HEXAVALENT CHROMIUM	0.59	0.46	25	50.00	No Qualifiers Applied

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MERCURY	0.0573	0.0528	8	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
4,4'-DDE	13	4.5 U	200	50.00	J(all detects) UJ(all non-detects)
4,4'-DDT	66	140	72	50.00	
Chlordane	27	17 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
AROCLOR 1254	1.7 U	4300	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	14	1700 U	200	50.00	
Aroclor 5460	17	9000	199	50.00	

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
2,4-DB	1.2	3.4	96	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
BENZO(A)ANTHRACENE	6.3	4.8	27	50.00	No Qualifiers Applied
ANTHRACENE	8.6 U	2.1	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	8.6 U	5.5	200	50.00	
BENZO(K)FLUORANTHENE	22	4.3	135	50.00	
FLUORANTHENE	4.6	17	115	50.00	
INDENO(1,2,3-CD)PYRENE	8.6 U	3.6	200	50.00	
PHENANTHRENE	8.6 U	5.6	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
Di-n-butylphthalate	170 U	24	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	*Concentration (pH unit)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
PH	7.24	7.33	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	BORON	J	0.0035	0.0500	PQL	mg/L	J (all detects)
	SODIUM	J	0.295	1.00	PQL	mg/L	
	STRONTIUM	J	0.00026	0.0050	PQL	mg/L	
	Zirconium	J	0.0049	0.0500	PQL	mg/L	

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	MERCURY	J	0.000029	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-072711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.062	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.080	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.50	1.1	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-179-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	SODIUM	J	98.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	3.96	10.3	PQL	mg/Kg	
	Zirconium	J	2.79	5.14	PQL	mg/Kg	
SL-009-SA6-SS-0.0-0.5	SODIUM	J	94.4	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	10.2	PQL	mg/Kg	
	Zirconium	J	3.31	5.09	PQL	mg/Kg	
SL-017-SA6-SS-0.0-0.5	BORON	J	3.83	5.00	PQL	mg/Kg	J (all detects)
	TIN	J	2.97	10.0	PQL	mg/Kg	
	Zirconium	J	2.77	5.00	PQL	mg/Kg	
SL-028-SA6-SS-0.0-0.5	BORON	J	4.35	4.92	PQL	mg/Kg	J (all detects)
	TIN	J	3.31	9.83	PQL	mg/Kg	
	Zirconium	J	2.85	4.92	PQL	mg/Kg	
SL-069-SA6-SB-4.0-5.0	TIN	J	3.02	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.37	5.26	PQL	mg/Kg	
SL-069-SA6-SB-9.0-10.0	TIN	J	3.08	11.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA6-SB-2.0-3.0	TIN	J	3.71	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.96	5.26	PQL	mg/Kg	
SL-089-SA6-SB-4.0-5.0	TIN	J	2.87	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.86	5.23	PQL	mg/Kg	
SL-089-SA6-SB-9.0-10.0	TIN	J	2.92	11.0	PQL	mg/Kg	J (all detects)
SL-117-SA6-SB-2.0-3.0	BORON	J	3.25	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	2.92	10.1	PQL	mg/Kg	
	Zirconium	J	2.50	5.07	PQL	mg/Kg	
SL-179-SA5DN-SB-4.0-5.0	TIN	J	2.71	9.88	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.92	4.94	PQL	mg/Kg	
SL-179-SA5DN-SB-9.0-10.0	TIN	J	3.29	11.1	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	SELENIUM	J	0.0725	0.411	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	ANTIMONY	J	0.123	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.395	PQL	mg/Kg	
SL-017-SA6-SS-0.0-0.5	SELENIUM	J	0.148	0.400	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0768	0.100	PQL	mg/Kg	
SL-028-SA6-SS-0.0-0.5	ANTIMONY	J	0.124	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.409	PQL	mg/Kg	
SL-069-SA6-SB-4.0-5.0	SELENIUM	J	0.151	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0405	0.107	PQL	mg/Kg	
SL-069-SA6-SB-9.0-10.0	ANTIMONY	J	0.101	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.149	0.455	PQL	mg/Kg	
	SILVER	J	0.0308	0.114	PQL	mg/Kg	
SL-076-SA6-SB-2.0-3.0	SELENIUM	J	0.0901	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0295	0.103	PQL	mg/Kg	
SL-089-SA6-SB-4.0-5.0	SELENIUM	J	0.113	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.106	PQL	mg/Kg	
SL-089-SA6-SB-9.0-10.0	ANTIMONY	J	0.108	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.424	PQL	mg/Kg	
	SILVER	J	0.0321	0.106	PQL	mg/Kg	
SL-117-SA6-SB-2.0-3.0	ANTIMONY	J	0.158	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0626	0.103	PQL	mg/Kg	
	SELENIUM	J	0.107	0.413	PQL	mg/Kg	
SL-179-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.169	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.407	PQL	mg/Kg	
	SILVER	J	0.0299	0.102	PQL	mg/Kg	
SL-179-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0951	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0375	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	HEXAVALENT CHROMIUM	J	0.46	1.0	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.72	1.0	PQL	mg/Kg	J (all detects)
SL-069-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	MERCURY	J	0.0528	0.101	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	MERCURY	J	0.0573	0.100	PQL	mg/Kg	J (all detects)
SL-017-SA6-SS-0.0-0.5	MERCURY	J	0.0930	0.0978	PQL	mg/Kg	J (all detects)
SL-069-SA6-SB-4.0-5.0	MERCURY	J	0.0198	0.108	PQL	mg/Kg	J (all detects)
SL-089-SA6-SB-4.0-5.0	MERCURY	J	0.0189	0.104	PQL	mg/Kg	J (all detects)
SL-179-SA5DN-SB-4.0-5.0	MERCURY	J	0.0594	0.102	PQL	mg/Kg	J (all detects)
SL-179-SA5DN-SB-9.0-10.0	MERCURY	J	0.0085	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.93	2.7	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA6-SS-0.0-0.5	Chlordane	J	27	35	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	Aroclor 5460	J	33	34	PQL	ug/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	Aroclor 5460	J	2.0	3.4	PQL	ug/Kg	J (all detects)
SL-117-SA6-SB-2.0-3.0	Aroclor 5460	J	2.3	3.4	PQL	ug/Kg	J (all detects)
SL-179-SA5DN-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	1.6 2.6	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA6-SS-0.0-0.5	2,4-DB	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	MCPP	J	150	250	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	BENZO(B)FLUORANTHENE	J	22	170	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	23	170	PQL	ug/Kg	
	CHRYSENE	J	25	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	24	170	PQL	ug/Kg	
	PYRENE	J	17	170	PQL	ug/Kg	
SL-017-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	38	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	340	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	19	170	PQL	ug/Kg	
SL-069-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	29	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	24	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	27	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	27	180	PQL	ug/Kg	
	CHRYSENE	J	35	180	PQL	ug/Kg	
	FLUORANTHENE	J	55	180	PQL	ug/Kg	
	PHENANTHRENE	J	41	180	PQL	ug/Kg	
	PYRENE	J	65	180	PQL	ug/Kg	
SL-069-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	20	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	27	190	PQL	ug/Kg	
	FLUORANTHENE	J	24	190	PQL	ug/Kg	
	PYRENE	J	22	190	PQL	ug/Kg	
SL-089-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	22	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	37	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	23	190	PQL	ug/Kg	
	PYRENE	J	30	190	PQL	ug/Kg	
SL-179-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	ANTHRACENE	J	2.1	8.6	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	4.8	8.6	PQL	ug/Kg	
	BENZO(A)PYRENE	J	5.5	8.6	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	4.3	8.6	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.6	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	5.6	8.6	PQL	ug/Kg	
SL-009-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.3	8.6	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	3.6	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	4.6	8.6	PQL	ug/Kg	
	PYRENE	J	6.1	8.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	3.2	8.6	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	7.1	8.6	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.2	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	4.5	8.6	PQL	ug/Kg	
SL-028-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.62	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.5	18	PQL	ug/Kg	
	Diethylphthalate	J	7.7	18	PQL	ug/Kg	
	Dimethylphthalate	J	8.4	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.7	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.76	1.7	PQL	ug/Kg	
SL-069-SA6-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.82	1.8	PQL	ug/Kg	
SL-069-SA6-SB-9.0-10.0	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.79	1.9	PQL	ug/Kg	
SL-076-SA6-SB-2.0-3.0	1-METHYLNAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.84	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.4	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
SL-089-SA6-SB-4.0-5.0	ANTHRACENE	J	7.9	9.2	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.2	9.2	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.1	9.2	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.7	9.2	PQL	ug/Kg	
	FLUORENE	J	4.1	9.2	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.9	9.2	PQL	ug/Kg	
	PHENANTHRENE	J	8.3	9.2	PQL	ug/Kg	
	PYRENE	J	8.5	9.2	PQL	ug/Kg	
SL-089-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.46	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	FLUORENE	J	0.96	1.9	PQL	ug/Kg	
SL-117-SA6-SB-2.0-3.0	ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-179-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	3.5	8.6	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	4.6	8.6	PQL	ug/Kg	
	CHRYSENE	J	4.9	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	5.3	8.6	PQL	ug/Kg	
	PYRENE	J	5.5	8.6	PQL	ug/Kg	
SL-179-SA5DN-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	

LDC #: 26407H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE210 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: MG

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

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

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

1	SL-009-SA6-SS-0.0-0.5	11	SL-179-SA5DN-SB-4.0-5.0	21		31	
2	SL-017-SA6-SS-0.0-0.5	12	SL-179-SA5DN-SB-9.0-10.0	22		32	
3	SL-028-SA6-SS-0.0-0.5	13	EB-SA6-SB-072711	23		33	
4	DUP09-SA6-QC-072711	14	SL-009-SA6-SS-0.0-0.5MS	24		34	
5	SL-069-SA6-SB-4.0-5.0	15	SL-009-SA6-SS-0.0-0.5MSD	25		35	
6	SL-069-SA6-SB-9.0-10.0	16	SL-009-SA6-SS-0.0-0.5DUP	26		36	
7	SL-076-SA6-SB-2.0-3.0	17		27		37	
8	SL-089-SA6-SB-4.0-5.0	18		28		38	
9	SL-089-SA6-SB-9.0-10.0	19		29		39	
10	SL-117-SA6-SB-2.0-3.0	20		30		40	

Notes: _____

LDC #: 26407H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: AC
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 3-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Quals													
Sn	1.8	0.9														

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1-7, 9-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	12													
Hg	0.019	0.01	0.0085													

Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All Water

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	13													
Hg	0.097	0.485	0.029													
Zr	6.7	33.5	4.9													

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

LDC #: 26407H4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: AR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/27/11 Soil factor applied 100x (Hg: 167x)
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification												
	13	Action Level	1	2	3	4	5	8	11	12				
B	3.5	1.75												
Na	295	147.5	94.4	124	110	98.5			108					
Zr	4.9	2.45												
Sr	0.26	0.13												
Hg	0.029	0.024215					0.020	0.019		0.0085				

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

>4X

Background Lab Sample ID: 6358381BKG Matrix Spike Lab Sample ID: 6358382MS Matrix Spike Duplicate Lab Sample ID: 6358383MSD
% Solids for Sample: 97.3
Batch Id(s): P21408D, P21426A, P21411B

Sb: J/UJ/A (PS=88%)

BRDout

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum -		12073.9023		13168.2944		12807.2172		199.5630	199.5630	MG/KG	548		367		3			20	P
Antimony	121	0.1233	B	0.4607		0.4591		1.1859	1.1746	MG/KG	28	N	29	N	0		75 - 125	20	MS
Arsenic	75	3.1248		5.0360		5.0663		1.9764	1.9576	MG/KG	97		99		1		75 - 125	20	MS
Barium -	137	97.3990		101.0752		126.4229		9.8822	9.7881	MG/KG	37		297		22	*		20	MS
Beryllium	9	0.4194		1.1621		1.1278		0.7906	0.7830	MG/KG	94		90		3		75 - 125	20	MS
Boron		6.2133		200.7045		198.0992		199.5630	199.5630	MG/KG	97		96		1		84 - 115	20	P
Cadmium	111	0.6135		1.6665		1.6276		0.9882	0.9788	MG/KG	107		104		2		75 - 125	20	MS
Calcium -		3494.5570		4265.4427		3818.4177		399.1259	399.1259	MG/KG	193		81		11			20	P
Chromium	52	18.4481		26.9784		26.7606		9.8822	9.7881	MG/KG	86		85		1		75 - 125	20	MS
Cobalt	59	5.0142		53.1663		53.3255		49.4110	48.9404	MG/KG	97		99		0		75 - 125	20	MS
Copper	63	12.2164		22.7291		23.7067		9.8822	9.7881	MG/KG	106		117		4		75 - 125	20	MS
Iron -		18429.1107		16819.9922		16804.3106		99.7815	99.7815	MG/KG	-1613		-1628		0			20	P
Lead -	208	27.2946		34.1331		28.1897		2.9647	2.9364	MG/KG	231		30		19			20	MS
Lithium		20.9162		117.5037		117.4039		99.7815	99.7815	MG/KG	97		97		0		82 - 114	20	P
Magnesium		4009.8308		4095.5497		3872.3316		199.5630	199.5630	MG/KG	43		-69		6			20	P
Manganese		297.8977		293.7377		281.1692		49.8907	49.8907	MG/KG	-8		-34		4			20	P
Mercury		0.0573	B	0.2334		0.2492		0.1679	0.1673	MG/KG	105		115		7		65 - 135	20	CV
Molybdenum	98	0.5759		10.5562		10.4478		9.8822	9.7881	MG/KG	101		101		1		75 - 125	20	MS
Nickel	60	13.7027		23.3220		26.0950		9.8822	9.7881	MG/KG	97		127	N	11		75 - 125	20	MS
Phosphorus -		463.7021		522.3730		493.7966		99.7815	99.7815	MG/KG	59		30		6			20	P
Potassium		3298.9427		4143.2792		3992.5773		997.8148	997.8148	MG/KG	85		70	N	4		75 - 125	20	P
Selenium	78	0.1129	B	2.1444		2.0379		1.9764	1.9576	MG/KG	103		98		5		75 - 125	20	MS
Silver	107	0.5131		10.9119		10.4047		9.8822	9.7881	MG/KG	105		101		5		75 - 125	20	MS
Sodium		94.4237	B	1048.7642		1050.2849		997.8148	997.8148	MG/KG	96		96		0		75 - 125	20	P
Strontium		18.9208		118.8427		115.2227		99.7815	99.7815	MG/KG	100		97		3		75 - 115	20	P
Thallium	203	0.2223		0.5771		0.6012		0.3953	0.3915	MG/KG	90		97		4		75 - 125	20	MS
Tin		3.0212	B	357.4372		375.4238		399.1259	399.1259	MG/KG	89		93		5		80 - 110	20	P
Titanium -		1030.6045		1149.4587		1092.3348		99.7815	99.7815	MG/KG	119		62		5			20	P
Vanadium	51	29.9628		37.7698		40.4052		9.8822	9.7881	MG/KG	79		107		7		75 - 125	20	MS
Zinc -	66	115.2463		123.4683		116.6349		9.8822	9.7881	MG/KG	83		14		6			20	MS
Zirconium		3.3112	B	95.9948		97.5653		99.7815	99.7815	MG/KG	93		94		2		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

<57

Background Lab Sample ID: 6358381BKG
% Solids for Duplicate: 97.2
Batch ID(s): P21408D, P21426A, P21411B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6358384DUP
% Solids for Sample: 97.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12073.9023		11672.4583		3		P
Antimony	121		0.1233	B	0.1137	B	8		MS
Arsenic	75		3.1248		3.0380		3		MS
Barium	137		97.3990		83.3094		16		MS
Beryllium	9	0.1	0.4194		0.3881		8		MS
Boron		5.1	6.2133		6.1856		0		P
Cadmium	111		0.6135		0.5490		11		MS
Calcium			3494.5570		3655.0068		4		P
Chromium	52		18.4481		16.7626		10		MS
Cobalt	59		5.0142		4.4152		13		MS
Copper	63		12.2164		15.8972		26	*	MS
Iron			18429.1107		17322.6125		6		P
Lead	208		27.2946		2990.7503		196	*	MS
Lithium			20.9162		19.7872		6		P
Magnesium			4009.8308		3940.0339		2		P
Manganese			297.8977		257.0572		15		P
Mercury			0.0573	B	0.0636	B	10		CV
Molybdenum	98		0.5759		0.6960		19		MS
Nickel	60		13.7027		12.0822		13		MS
Phosphorus			463.7021		463.3869		0		P
Potassium			3298.9427		3179.7836		4		P
Selenium	78		0.1129	B	0.0966	B	16		MS
Silver	107		0.5131		0.6524		24	*	MS
Sodium			94.4237	B	86.5163	B	9		P
Strontium			18.9208		20.7908		9		P
Thallium	203	0.1	0.2223		0.1877		17		MS
Tin			3.0212	B	3.1326	B	4		P
Titanium			1030.6045		957.9731		7		P
Vanadium	51		29.9628		26.4748		12		MS
Zinc	66		115.2463		113.7718		1		MS
Zirconium			3.3112	B	3.1568	B	5		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.

DE210 5719

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6358381BKG Serial Dilution Lab Sample ID: 6358381L
Batch ID(s): P21408D, P21426A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		118653.8600		121007.1000		2		P
Antimony	121	0.6237	B	1.8500	U	100		MS
Arsenic	75	15.8100		15.6000		1		MS
Barium	137	492.8000		496.8500		1		MS
Beryllium	9	2.1220		2.2560	B	6		MS
Boron		61.0600		78.6000	B	29		P
Cadmium	111	3.1040		2.9760		4		MS
Calcium		34342.0600		35624.9500		4		P
Chromium	52	93.3400		105.5500		13	E	MS
Cobalt	59	25.3700		25.9900		2		MS
Copper	63	61.8100		63.5500		3		MS
Iron		181108.4000		182678.3000		1		P
Lead	208	138.1000		139.7000		1		MS
Lithium		205.5500		228.0500		11		P
Magnesium		39405.8100		40779.5500		3		P
Manganese		2927.5300		2991.0000		2		P
Molybdenum	98	2.9140		3.1365		8		MS
Nickel	60	69.3300		69.7500		1		MS
Phosphorus		4556.9400		4458.1500		2		P
Potassium		32419.7000		32744.6000		1		P
Selenium	78	0.5710	B	1.4500	U	100		MS
Silver	107	2.5960		2.5205		3		MS
Sodium		927.9300	B	941.3000	B	1		P
Strontium		185.9400		186.7500		0		P
Thallium	203	1.1250		0.9660	B	14		MS
Tin		29.6900	B	35.9000	B	21		P
Titanium		10128.0600		10518.5000		4		P
Vanadium	51	151.6000		172.4500		14	E	MS
Zinc	66	583.1000		596.0000		2		MS
Zirconium		32.5400	B	50.0000	B	54		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: DE210 5723
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE211

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	6359565	N	3050B	6010B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3050B	6020	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3060A	7199	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8015B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8015M	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8082	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8270C	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8270C SIM	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	5035	8015M	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	300.0	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	314.0	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	6850	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	7471A	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	8015B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3050B	6010B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3050B	6020	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3060A	7199	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8015B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8082	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8270C	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8270C SIM	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	5035	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	300.0	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	7471A	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	8015B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	8015M	III
28-Jul-2011	TB-072811	6359570	TB	5030B	8015M	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	7471A	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	7471A	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	7471A	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3050B	6010B	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3050B	6020	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3060A	7199	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8082	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8270C	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8270C SIM	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	300.0	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	314.0	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3050B	6010B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3050B	6020	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3060A	7199	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8015B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8015M	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8082	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8270C	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8270C SIM	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	5035	8015M	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	300.0	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	314.0	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	8015B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	8015M	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	6850	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	7471A	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3050B	6010B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3050B	6020	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3060A	7199	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8015B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8015M	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8082	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8270C	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8270C SIM	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	5035	8015M	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	300.0	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	314.0	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	7471A	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	8015B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3050B	6010B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3050B	6020	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8015B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8082	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8270C	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8270C SIM	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	5035	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	300.0	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	314.0	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	8015B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	8015M	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3050B	6010B	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3050B	6020	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3060A	7199	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8082	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8270C	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8270C SIM	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	300.0	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	314.0	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	7471A	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3050B	6010B	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3050B	6020	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3060A	7199	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8082	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8270C	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	300.0	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	314.0	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 **Collected:** 7/28/2011 10:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.9		0.87	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	0.90	U	0.90	MDL	1.1	PQL	mg/Kg	UJ	Q

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
FLUORIDE	3.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	1.4		0.97	MDL	1.2	PQL	mg/Kg	J	Q

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
FLUORIDE	2.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	7.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	4.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	4.0		0.95	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **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
FLUORIDE	6.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	6.8		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.64	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
POTASSIUM	3830		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.57	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3040		12.1	MDL	53.7	PQL	mg/Kg	J	Q

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
BORON	0.622	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
TIN	1.81	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.67	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

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
BORON	1.72	J	0.387	MDL	5.38	PQL	mg/Kg	U	B
POTASSIUM	3430		12.1	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.07	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **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
Zirconium	3.64	J	0.495	MDL	5.38	PQL	mg/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
POTASSIUM	3250		13.0	MDL	57.7	PQL	mg/Kg	J	Q
TIN	2.36	J	0.369	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.531	MDL	5.77	PQL	mg/Kg	J	Z

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
BORON	5.09	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
POTASSIUM	4840		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.04	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.509	MDL	5.54	PQL	mg/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
POTASSIUM	1500		12.3	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.42	J	0.347	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.499	MDL	5.43	PQL	mg/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
BORON	3.65	J	0.384	MDL	5.33	PQL	mg/Kg	U	B
POTASSIUM	4630		12.1	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.66	J	0.341	MDL	10.7	PQL	mg/Kg	U	B

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
BORON	4.51	J	0.426	MDL	5.91	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **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
POTASSIUM	2980		13.4	MDL	59.1	PQL	mg/Kg	J	Q
TIN	2.21	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	5.58	J	0.544	MDL	5.91	PQL	mg/Kg	J	Z

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
BORON	5.10	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
POTASSIUM	3800		12.2	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.68	J	0.345	MDL	10.8	PQL	mg/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
BORON	1.18	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
POTASSIUM	2410		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.63	J	0.363	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.06	J	0.522	MDL	5.68	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.116	J	0.0804	MDL	0.217	PQL	mg/Kg	J	Z, Q
CHROMIUM	30.7		0.130	MDL	0.435	PQL	mg/Kg	J	A
SILVER	0.0493	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	59.4		0.0239	MDL	0.109	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0623	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0795	MDL	0.215	PQL	mg/Kg	J	Z, Q
CHROMIUM	14.1		0.129	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0318	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0930	J	0.0611	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0780	U	0.0780	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	16.8		0.126	MDL	0.422	PQL	mg/Kg	J	A
SILVER	0.0198	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	39.5		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0846	MDL	0.229	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.2		0.137	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0354	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	33.5		0.0252	MDL	0.114	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0824	J	0.0820	MDL	0.221	PQL	mg/Kg	J	Z, Q
CHROMIUM	23.3		0.133	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0215	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	48.7		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0819	U	0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q
CHROMIUM	17.7		0.133	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0223	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	46.0		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0812	MDL	0.220	PQL	mg/Kg	J	Z, Q
CHROMIUM	26.0		0.132	MDL	0.439	PQL	mg/Kg	J	A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.9		0.0242	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0686	MDL	0.473	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0875	MDL	0.236	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.8		0.142	MDL	0.473	PQL	mg/Kg	J	A
SILVER	0.0470	J	0.0168	MDL	0.118	PQL	mg/Kg	J	Z
VANADIUM	49.7		0.0260	MDL	0.118	PQL	mg/Kg	J	A

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0791	MDL	0.214	PQL	mg/Kg	J	Z, Q
CHROMIUM	31.9		0.128	MDL	0.428	PQL	mg/Kg	J	A
SILVER	0.0438	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	62.0		0.0235	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 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	0.0798	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 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	0.0991	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0663	J	0.0500	MDL	0.114	PQL	mg/Kg	J	Z
CHROMIUM	26.0		0.136	MDL	0.454	PQL	mg/Kg	J	A
SILVER	0.0536	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0250	MDL	0.114	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 **Collected:** 7/28/2011 10:19:00 **Analysis Type:** RES **Dilution:** 1

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

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
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/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
HEXAVALENT CHROMIUM	0.43	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.25	J	0.22	MDL	1.1	PQL	mg/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
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.1	PQL	mg/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
HEXAVALENT CHROMIUM	0.43	J	0.23	MDL	1.2	PQL	mg/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
HEXAVALENT CHROMIUM	0.29	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 7199 **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
HEXAVALENT CHROMIUM	0.24	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

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
HEXAVALENT CHROMIUM	0.24	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

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

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

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
MERCURY	0.0366	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

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
MERCURY	0.0127	J	0.0078	MDL	0.111	PQL	mg/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
MERCURY	0.0159	J	0.0076	MDL	0.108	PQL	mg/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
MERCURY	0.0114	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **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
MERCURY	0.0120	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

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
MERCURY	0.0157	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

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

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.66	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 12:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	29	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	75	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	61	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	89	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	28	J	19	MDL	190	PQL	ug/Kg	J	Z
CHRYSENE	80	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	47	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	80	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	50	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	58	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	73	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	55	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	36	J	20	MDL	200	PQL	ug/Kg	J	Z
CHRYSENE	60	J	20	MDL	200	PQL	ug/Kg	J	Z
FLUORANTHENE	59	J	20	MDL	200	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	37	J	20	MDL	200	PQL	ug/Kg	J	Z
PYRENE	58	J	20	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **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	28	J	19	MDL	370	PQL	ug/Kg	J	Z

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
3,5-Dimethylphenol	37	U	37	MDL	190	PQL	ug/Kg	R	Q
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	19	MDL	380	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.8	J	0.37	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.98	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *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	0.43	J	0.36	MDL	1.8	PQL	ug/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-METHYLNAPHTHALENE	1.6	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.9	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.7	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.93	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.78	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	7.1	MDL	21	PQL	ug/Kg	J	Z
FLUORENE	1.8	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:11:00 ***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	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-183-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 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
CHRYSENE	0.44	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE211

Method Blank Outlier Report

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

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

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408FB222012	8/3/2011 8:12:00 PM	ALUMINUM	6.17 mg/Kg	DUP21-SA5DN-QC-072811
		BORON	0.739 mg/Kg	SL-068-SA6-SB-19.0-20.0
		CALCIUM	11.0 mg/Kg	SL-068-SA6-SB-4.0-5.0
		IRON	4.51 mg/Kg	SL-070-SA6-SB-19.0-20.0
		MAGNESIUM	0.694 mg/Kg	SL-070-SA6-SB-4.0-5.0
		MANGANESE	0.0420 mg/Kg	SL-090-SA6-SB-3.0-4.0
		PHOSPHORUS	1.27 mg/Kg	SL-172-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0620 mg/Kg	SL-172-SA5DN-SB-9.0-10.0
		TIN	1.55 mg/Kg	SL-183-SA5DN-SB-4.0-5.0
				SL-183-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP21-SA5DN-QC-072811(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-068-SA6-SB-19.0-20.0(RES)	BORON	0.622 mg/Kg	0.622U mg/Kg
SL-068-SA6-SB-19.0-20.0(RES)	TIN	1.81 mg/Kg	1.81U mg/Kg
SL-068-SA6-SB-4.0-5.0(RES)	BORON	1.72 mg/Kg	1.72U mg/Kg
SL-068-SA6-SB-4.0-5.0(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-070-SA6-SB-19.0-20.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-070-SA6-SB-4.0-5.0(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-090-SA6-SB-3.0-4.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	BORON	3.65 mg/Kg	3.65U mg/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	BORON	1.18 mg/Kg	1.18U mg/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	ANTIMONY	30	28	75.00-125.00	-	ANTIMONY	J (all detects) UJ (all non-detects) Post Spike = 97%
SL-183-SA5DN-SB-4.0-5.0MS (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	BARIUM	129	-	75.00-125.00	-	BARIUM	No qual, >4x

Method: 6010B
Matrix: SO

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

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

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

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

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	MANGANESE	-	67	75.00-125.00	-	MANGANESE	No qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MS (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

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

Method: 7199
Matrix: SO

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426BQ222053A (DUP21 -SA5DN -QC-072811 SL -068-SA6-SB-19.0-20.0 SL -068-SA6-SB-4.0-5.0 SL -070-SA6-SB-19.0-20.0 SL -070-SA6-SB-4.0-5.0 SL -090-SA6-SB-3.0-4.0 SL -172-SA5DN -SB-4.0-5.0 SL -172-SA5DN -SB-9.0-10.0 SL -183-SA5DN -SB-4.0-5.0 SL -183-SA5DN -SB-9.0-10.0)	ANTIMONY	66	-	80.00-120.00	-	ANTIMONY	No qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408FQ222016 (DUP21 -SA5DN -QC-072811 SL -068-SA6-SB-19.0-20.0 SL -068-SA6-SB-4.0-5.0 SL -070-SA6-SB-19.0-20.0 SL -070-SA6-SB-4.0-5.0 SL -090-SA6-SB-3.0-4.0 SL -172-SA5DN -SB-4.0-5.0 SL -172-SA5DN -SB-9.0-10.0 SL -183-SA5DN -SB-4.0-5.0 SL -183-SA5DN -SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	146 123 121 177	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No qual, SRM within QC limits

Field Duplicate RPD Report

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

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

Method: 160.3M
Matrix: SO

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

Method: 300.0
Matrix: SO

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

Method: 6010B
Matrix: SO

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

Method: 6020
Matrix: SO

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

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

Field Duplicate RPD Report

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

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

Method: 7199
Matrix: SO

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

Method: 7471A
Matrix: SO

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

Method: 8270C SIM
Matrix: SO

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

Method: 9045M
Matrix: SO

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

Reporting Limit Outliers

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

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

Method: 6010B

Matrix: SO

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

Method: 6020

Matrix: SO

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

Reporting Limit Outliers

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

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

Method: 6020

Matrix: SO

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

Method: 7199

Matrix: SO

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

Method: 7471A

Matrix: SO

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

Reporting Limit Outliers

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

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

Method: 7471A

Matrix: SO

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

Method: 8015M

Matrix: SO

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

Method: 8082

Matrix: SO

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

Method: 8270C

Matrix: SO

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

Reporting Limit Outliers

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

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

Method: **8270C SIM**

Matrix: **SO**

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

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

SDG #: DE211 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CL

2nd Reviewer: MG

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

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

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

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

Validated Samples:

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

Notes:

Lancaster Laboratories

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

>4X

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

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

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

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

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

Lancaster Laboratories

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

< 5xRL

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

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

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

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

DE211 2329

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

Lancaster Laboratories

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

5/05

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

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

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

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

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

DE211 2331

SAMPLE DELIVERY GROUP

DE212

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	7471A	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	7471A	III

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	METHOD	314.0	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.8		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS
Method: 6010B **Matrix:** SO

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12400		6.67	MDL	22.1	PQL	mg/Kg	J	E
BORON	1.30	J	0.397	MDL	5.52	PQL	mg/Kg	J	Z, FD
IRON	26700		2.88	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	4650		0.485	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	251		0.0397	MDL	0.552	PQL	mg/Kg	J	E
PHOSPHORUS	479		0.386	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	2310		12.5	MDL	55.2	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	34.7		0.0276	MDL	0.552	PQL	mg/Kg	J	E
TIN	2.95	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1000		0.0783	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	4.91	J	0.508	MDL	5.52	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1660		2.64	MDL	21.1	PQL	mg/Kg	J	E
SODIUM	80.2	J	6.27	MDL	105	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15400		6.63	MDL	21.9	PQL	mg/Kg	J	E
BORON	1.98	J	0.394	MDL	5.48	PQL	mg/Kg	J	Z
IRON	17600		2.86	MDL	21.9	PQL	mg/Kg	J	E
MAGNESIUM	3870		0.482	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	114		0.0394	MDL	0.548	PQL	mg/Kg	J	E
PHOSPHORUS	59.5		0.383	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	1460		12.4	MDL	54.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	10.5		0.0274	MDL	0.548	PQL	mg/Kg	J	E
TIN	3.11	J	0.350	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	997		0.0778	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	3.36	J	0.504	MDL	5.48	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS **Method:** 6010B **Matrix:** SO

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212
Laboratory: LL
EDD Filename: DE212_v1
eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 6010B **Matrix:** SO

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

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

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

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0546	MDL	0.109	PQL	mg/Kg	J	FD

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0809	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	9.88		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, FD
CADMIUM	0.216		0.0481	MDL	0.109	PQL	mg/Kg	J	E
CHROMIUM	16.1		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E, Q, A
COBALT	13.9		0.0219	MDL	0.109	PQL	mg/Kg	J	FD
COPPER	22.1		0.0874	MDL	0.437	PQL	mg/Kg	J	FD
LEAD	10.2		0.0111	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	9.96		0.109	MDL	0.437	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0386	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 11:45:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 11:45:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	4.38		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
CADMIUM	0.0463	U	0.0463	MDL	0.105	PQL	mg/Kg	UJ	E
CHROMIUM	15.3		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-126-SA6-SB-9.0-10.0** ***Collected:*** **7/29/2011 11:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.81		0.0107	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.105	MDL	0.421	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0720	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

Method Category: METALS

Method: 7199 **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

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

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

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

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

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix: SO**

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

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

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

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

Method Category: METALS

Method: 7471A **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.509		0.0080	MDL	0.113	PQL	mg/Kg	J	Q, FD

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

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

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

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

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

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

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

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0096	J	0.0081	MDL	0.116	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** REA2 **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	9.2	J	4.5	MDL	14	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	63		4.5	MDL	14	PQL	mg/Kg	J	FD
EFH (C30-C40)	130		4.5	MDL	14	PQL	mg/Kg	J	FD

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.88	U	0.88	MDL	2.6	PQL	mg/Kg	R	Q
EFH (C15-C20)	0.88	U	0.88	MDL	2.6	PQL	mg/Kg	UJ	FD
EFH (C21-C30)	7.7		0.88	MDL	2.6	PQL	mg/Kg	J	Q, Q, FD
EFH (C30-C40)	19		0.88	MDL	2.6	PQL	mg/Kg	J	FD
EFH (C8-C11)	0.88	U	0.88	MDL	2.6	PQL	mg/Kg	R	Q

Sample ID: SL-126-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 11:35:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.71	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected:** 7/29/2011 8:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.9		0.38	MDL	1.9	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected: 7/29/2011 7:55:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.9		0.36	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SL-174-SA5DN-SB-9.0-10.0 **Collected: 7/29/2011 2:51:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.82	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 **Collected: 7/29/2011 8:00:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	50	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	57	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	85	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	65	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	28	J	19	MDL	190	PQL	ug/Kg	J	Z
CHRYSENE	54	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	89	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	36	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z, L
PYRENE	95	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA6-SB-7.0-8.0 **Collected: 7/29/2011 9:50:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	28	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	130	J	18	MDL	360	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z, L

Sample ID: SL-180-SA5DN-SB-4.0-5.0 **Collected: 7/29/2011 9:10:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	19	MDL	380	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C **Matrix:** SO

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 8:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
ACENAPHTHYLENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
ANTHRACENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
Butylbenzylphthalate	8.2	J	6.8	MDL	20	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z, FD
FLUORENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-122-SA6-SB-0.0-0.5 ***Collected:*** 7/29/2011 2:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
Butylbenzylphthalate	36	J	30	MDL	91	PQL	ug/Kg	J	Z, L
CHRYSENE	4.2	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	59	J	30	MDL	91	PQL	ug/Kg	J	Z
FLUORANTHENE	4.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	4.3	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA6-SB-4.0-5.0 ***Collected:*** 7/29/2011 9:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.3	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	45	J	33	MDL	98	PQL	ug/Kg	J	Z
Butylbenzylphthalate	38	J	33	MDL	98	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	55	J	33	MDL	98	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA6-SB-7.0-8.0 ***Collected:*** 7/29/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	4.1	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	33	MDL	98	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: **SL-123-SA6-SB-7.0-8.0** ***Collected:*** **7/29/2011 9:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	70	J	33	MDL	98	PQL	ug/Kg	J	Z
Di-n-octylphthalate	41	J	33	MDL	98	PQL	ug/Kg	J	Z

Sample ID: **SL-125-SA6-SB-20.0-21.0** ***Collected:*** **7/29/2011 8:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	6.1	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	2.4	J	1.9	MDL	9.6	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	46	J	35	MDL	100	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.9	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
Di-n-butylphthalate	56	J	35	MDL	100	PQL	ug/Kg	J	Z

Sample ID: **SL-125-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 7:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	97		3.6	MDL	9.1	PQL	ug/Kg	J	FD
ACENAPHTHYLENE	3.7	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z, FD
ANTHRACENE	730		1.8	MDL	9.1	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	84	J	33	MDL	98	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	69		3.6	MDL	9.1	PQL	ug/Kg	J	FD
Di-n-butylphthalate	57	J	33	MDL	98	PQL	ug/Kg	J	Z, FD
FLUORENE	110		3.6	MDL	9.1	PQL	ug/Kg	J	FD

Sample ID: **SL-126-SA6-SB-4.0-5.0** ***Collected:*** **7/29/2011 11:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.69	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.93	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 8270C SIM **Matrix:** SO

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected:** 7/29/2011 11:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.8	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 2:49:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	7.0	J	1.9	MDL	9.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	35	MDL	100	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.4	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.7	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 2:51:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.39	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.42	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	0.85	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.91	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-4.0-5.0 **Collected:** 7/29/2011 9:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	10	J	6.8	MDL	21	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	15	J	6.8	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: SL-180-SA5DN-SB-9.0-10.0 **Collected:** 7/29/2011 9:12:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	39	J	36	MDL	110	PQL	ug/Kg	J	Z
Di-n-butylphthalate	56	J	36	MDL	110	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.6	U	1.6	MDL	3.8	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.6	U	1.6	MDL	3.8	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE212

Method Blank Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408GB220201	8/4/2011 2:01:00 AM	ALUMINUM IRON PHOSPHORUS POTASSIUM TIN Zirconium	10.4 mg/Kg 6.50 mg/Kg 1.69 mg/Kg 14.9 mg/Kg 1.59 mg/Kg 1.38 mg/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0
P21408GB220953	8/4/2011 9:53:00 AM	CALCIUM	5.04 mg/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP10-SA6-QC-072911(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
DUP10-SA6-QC-072911(RES)	Zirconium	4.91 mg/Kg	4.91U mg/Kg
SL-122-SA6-SB-0.0-0.5(RES)	TIN	3.22 mg/Kg	3.22U mg/Kg
SL-122-SA6-SB-0.0-0.5(RES)	Zirconium	6.52 mg/Kg	6.52U mg/Kg
SL-123-SA6-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-123-SA6-SB-4.0-5.0(RES)	Zirconium	3.49 mg/Kg	3.49U mg/Kg
SL-123-SA6-SB-7.0-8.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-123-SA6-SB-7.0-8.0(RES)	Zirconium	4.70 mg/Kg	4.70U mg/Kg
SL-125-SA6-SB-20.0-21.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-125-SA6-SB-20.0-21.0(RES)	Zirconium	5.77 mg/Kg	5.77U mg/Kg
SL-125-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-125-SA6-SB-4.0-5.0(RES)	Zirconium	5.55 mg/Kg	5.55U mg/Kg
SL-126-SA6-SB-4.0-5.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-126-SA6-SB-4.0-5.0(RES)	Zirconium	3.66 mg/Kg	3.66U mg/Kg
SL-126-SA6-SB-9.0-10.0(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-126-SA6-SB-9.0-10.0(RES)	Zirconium	3.36 mg/Kg	3.36U mg/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	TIN	3.43 mg/Kg	3.43U mg/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	Zirconium	6.72 mg/Kg	6.72U mg/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	Zirconium	6.75 mg/Kg	6.75U mg/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	TIN	3.23 mg/Kg	3.23U mg/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	Zirconium	6.66 mg/Kg	6.66U mg/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: **8270C SIM**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260750	8/18/2011 7:50:00 AM	Diethylphthalate	15 ug/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	34 -	32 61	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	- 177 132	179 301 164	49.00-123.00 49.00-123.00 49.00-123.00	39 (20.00) 22 (20.00) -	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J(all detects) EFH (C30-C40), No Qual, >4x
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	EFH (C12-C14) EFH (C8-C11)	0 0	0 0	49.00-123.00 49.00-123.00	- -	EFH (C12-C14) EFH (C8-C11)	J(all detects) R(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	72 69	68 66	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MSD (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ARSENIC	-	163	75.00-125.00	-	ARSENIC	J(all detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	CHROMIUM VANADIUM ZINC	141 - 69	24 -6 -5	75.00-125.00 75.00-125.00 75.00-125.00	43 (20.00) - -	CHROMIUM VANADIUM ZINC	J(all detects) R(all non-detects) V, Zn, No Qual, >4x Cr post spike = 136%

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ANTIMONY LEAD NICKEL	30 - 130	37 174 60	75.00-125.00 75.00-125.00 75.00-125.00	- 21 (20.00) 32 (20.00)	ANTIMONY LEAD NICKEL	J(all detects) UJ(all non-detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	BARIUM	217	166	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TITANIUM	-708 -1906 -5104 -506 28 -39 -8	2535 376 1909 484 157 65 359	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	36 (20.00) 42 (20.00) 34 (20.00) 36 (20.00) 22 (20.00) 21 (20.00) 30 (20.00)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TITANIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	POTASSIUM	44	181	75.00-125.00	31 (20.00)	POTASSIUM	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MSD (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	MERCURY	-	62	65.00-135.00	-	MERCURY	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-126-SA6-SB-9.0-10.0MS (DUP10-SA6-QC-072911 SL-126-SA6-SB-9.0-10.0)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MSD (SL-125-SA6-SB-4.0-5.0)	PENTACHLOROPHENOL	-	-	28.00-127.00	50 (30.00)	PENTACHLOROPHENOL	J(all detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	Butylbenzylphthalate	227	229	57.00-173.00	-	Butylbenzylphthalate	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS SL-125-SA6-SB-4.0-5.0MSD (SL-125-SA6-SB-4.0-5.0)	ACENAPHTHENE	-165	-174	63.00-105.00	-	ACENAPHTHENE	No Qual, Diluted Out
	ANTHRACENE	-1832	-1897	73.00-115.00	48 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	-2403	-2499	59.00-128.00	55 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-1331	-1392	45.00-138.00	46 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-2337	-2425	43.00-155.00	57 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-701	-736	33.00-141.00	32 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-995	-1035	57.00-153.00	32 (30.00)	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	-9	1	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	
	CHRYSENE	-1855	-1939	48.00-134.00	57 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-111	-116	22.00-133.00	-	DIBENZO(A,H)ANTHRACENE	
	FLUORANTHENE	-8183	-8456	26.00-166.00	102 (30.00)	FLUORANTHENE	
	FLUORENE	-190	-200	66.00-122.00	-	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	-651	-681	21.00-143.00	32 (30.00)	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-6778	-7003	12.00-165.00	101 (30.00)	PHENANTHRENE	
	PYRENE	-4973	-5162	15.00-153.00	87 (30.00)	PYRENE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA6-SB-4.0-5.0DUP	STRONTIUM	21	20.00	J (all detects) UJ (all non-detects)
(DUP10 -SA6-QC-072911	Zirconium	29	20.00	Zr, No Qual, OK by Difference
SL -122-SA6-SB-0.0-0.5				
SL -123-SA6-SB-4.0-5.0				
SL -123-SA6-SB-7.0-8.0				
SL -125-SA6-SB-20.0-21.0				
SL -125-SA6-SB-4.0-5.0				
SL -126-SA6-SB-4.0-5.0				
SL -126-SA6-SB-9.0-10.0				
SL -174-SA5DN-SB-4.0-5.0				
SL -174-SA5DN-SB-9.0-10.0				
SL -180-SA5DN-SB-4.0-5.0				
SL -180-SA5DN-SB-9.0-10.0)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA6-SB-4.0-5.0DUP	ANTIMONY	31	20.00	J(all detects) UJ(all non-detects)
(DUP10 -SA6-QC-072911	CADMIUM	0.2506	0.212	Sb, Se, Ag, No Qual, OK by Difference
SL -122-SA6-SB-0.0-0.5	SELENIUM	22	20.00	
SL -123-SA6-SB-4.0-5.0	SILVER	47	20.00	
SL -123-SA6-SB-7.0-8.0				
SL -125-SA6-SB-20.0-21.0				
SL -125-SA6-SB-4.0-5.0				
SL -126-SA6-SB-4.0-5.0				
SL -126-SA6-SB-9.0-10.0				
SL -174-SA5DN-SB-4.0-5.0				
SL -174-SA5DN-SB-9.0-10.0				
SL -180-SA5DN-SB-4.0-5.0				
SL -180-SA5DN-SB-9.0-10.0)				

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA6-SB-4.0-5.0DUP	MERCURY	21	20.00	No Qual, OK by Difference
(DUP10 -SA6-QC-072911				
SL -122-SA6-SB-0.0-0.5				
SL -123-SA6-SB-4.0-5.0				
SL -123-SA6-SB-7.0-8.0				
SL -125-SA6-SB-20.0-21.0				
SL -125-SA6-SB-4.0-5.0				
SL -126-SA6-SB-4.0-5.0				
SL -126-SA6-SB-9.0-10.0				
SL -174-SA5DN-SB-4.0-5.0				
SL -174-SA5DN-SB-9.0-10.0				
SL -180-SA5DN-SB-4.0-5.0				
SL -180-SA5DN-SB-9.0-10.0)				

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426CQ222340A (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408GQ220205 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	137 170	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LELCSQ262114 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	INDENO(1,2,3-CD)PYRENE	121	-	64.00-119.00	-	INDENO(1,2,3-CD)PYRENE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2LDLCSQ260823 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	Butylbenzylphthalate	133	-	65.00-131.00	-	Butylbenzylphthalate	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-123-SA6-SB-4.0 -5.0	DECACHLOROBIPHENYL	0	45.00-120.00	All Target Analytes	No Qual, Diluted Out

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-123-SA6-SB-7.0 -8.0	Terphenyl-d14	347	45.00-135.00	No Affected Compounds	No Qual, Diluted Out
SL-174-SA5DN-SB -4.0-5.0	Terphenyl-d14	153	45.00-135.00	No Affected Compounds	No Qual, Diluted Out
SL-180-SA5DN-SB -9.0-10.0	2-FLUOROBIPHENYL Nitrobenzene-d5	19 34	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	No Qual, Diluted Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MOISTURE	8.6	12.0	33		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
FLUORIDE	1.9	1.2 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ALUMINUM	17500	12400	34	50.00	No Qualifiers Applied
IRON	23800	26700	11	50.00	
LITHIUM	24.2	16.7	37	50.00	
MAGNESIUM	5990	4650	25	50.00	
MANGANESE	272	251	8	50.00	
PHOSPHORUS	527	479	10	50.00	
POTASSIUM	3610	2310	44	50.00	
SODIUM	227	283	22	50.00	
STRONTIUM	58.0	34.7	50	50.00	
TIN	2.96	2.95	0	50.00	
TITANIUM	1130	1000	12	50.00	
Zirconium	5.55	4.91	12	50.00	
BORON	5.81	1.30	127	50.00	J(all detects)
CALCIUM	26400	10900	83	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ANTIMONY	0.129	0.110	16	50.00	No Qualifiers Applied
BARIUM	75.9	101	28	50.00	
BERYLLIUM	0.518	0.382	30	50.00	
CADMIUM	0.202	0.216	7	50.00	
CHROMIUM	21.2	16.1	27	50.00	
LEAD	6.78	10.2	40	50.00	
NICKEL	13.7	9.96	32	50.00	
SELENIUM	0.166	0.117	35	50.00	
SILVER	0.0238	0.0386	47	50.00	
THALLIUM	0.263	0.171	42	50.00	
VANADIUM	44.7	38.0	16	50.00	
ZINC	55.3	50.6	9	50.00	
ARSENIC	4.45	9.88	76	50.00	J(all detects)
COBALT	7.17	13.9	64	50.00	
COPPER	11.1	22.1	66	50.00	
MOLYBDENUM	0.346	2.05	142	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
HEXAVALENT CHROMIUM	0.26	0.33	24	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MERCURY	0.0790	0.509	146	50.00	J(all detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
EFH (C15-C20)	2.6 U	9.2	200	50.00	J(all detects)
EFH (C21-C30)	7.7	63	156	50.00	UJ(all non-detects)
EFH (C30-C40)	19	130	149	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
Aroclor 5460	6.5	7.8	18	50.00	No Qualifiers Applied
AROCLOR 1254	3.9	6.9	56	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ACENAPHTHENE	97	1.9 U	200	50.00	J(all detects)
ACENAPHTHYLENE	3.7	1.9 U	200	50.00	UJ(all non-detects)
ANTHRACENE	730	1.9 U	200	50.00	
DIBENZO(A,H)ANTHRACENE	69	1.9 U	200	50.00	
Di-n-butylphthalate	57	14	121	50.00	
FLUORENE	110	1.9 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
PH	8.25	10.1	20	50.00	No Qualifiers Applied

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	BORON	J	1.30	5.52	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	11.0	PQL	mg/Kg	
	Zirconium	J	4.91	5.52	PQL	mg/Kg	
SL-122-SA6-SB-0.0-0.5	TIN	J	3.22	9.87	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-4.0-5.0	BORON	J	2.18	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.5	PQL	mg/Kg	
	Zirconium	J	3.49	5.26	PQL	mg/Kg	
SL-123-SA6-SB-7.0-8.0	BORON	J	1.44	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	10.8	PQL	mg/Kg	
	Zirconium	J	4.70	5.39	PQL	mg/Kg	
SL-125-SA6-SB-20.0-21.0	BORON	J	1.81	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.4	PQL	mg/Kg	
SL-125-SA6-SB-4.0-5.0	TIN	J	2.96	10.8	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	BORON	J	1.43	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.2	105	PQL	mg/Kg	
	TIN	J	2.86	10.5	PQL	mg/Kg	
	Zirconium	J	3.66	5.27	PQL	mg/Kg	
SL-126-SA6-SB-9.0-10.0	BORON	J	1.98	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	11.0	PQL	mg/Kg	
	Zirconium	J	3.36	5.48	PQL	mg/Kg	
SL-174-SA5DN-SB-4.0-5.0	TIN	J	3.41	11.3	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	BORON	J	4.55	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.43	11.1	PQL	mg/Kg	
SL-180-SA5DN-SB-4.0-5.0	TIN	J	3.05	11.0	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	TIN	J	3.23	11.5	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	ANTIMONY	J	0.110	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.437	PQL	mg/Kg	
	SILVER	J	0.0386	0.109	PQL	mg/Kg	
SL-122-SA6-SB-0.0-0.5	ANTIMONY	J	0.161	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0903	0.399	PQL	mg/Kg	
	SILVER	J	0.0322	0.0997	PQL	mg/Kg	
SL-123-SA6-SB-4.0-5.0	ANTIMONY	J	0.0849	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0839	0.108	PQL	mg/Kg	
	SELENIUM	J	0.166	0.433	PQL	mg/Kg	
	SILVER	J	0.0304	0.108	PQL	mg/Kg	
SL-123-SA6-SB-7.0-8.0	SELENIUM	J	0.0999	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0289	0.106	PQL	mg/Kg	
SL-125-SA6-SB-20.0-21.0	SILVER	J	0.0420	0.114	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.425	PQL	mg/Kg	
	SILVER	J	0.0238	0.106	PQL	mg/Kg	
SL-126-SA6-SB-4.0-5.0	SELENIUM	J	0.0953	0.414	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0347	0.103	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA6-SB-9.0-10.0	SELENIUM	J	0.193	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0720	0.105	PQL	mg/Kg	
SL-174-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-174-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.100	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0902	0.112	PQL	mg/Kg	
	SILVER	J	0.0683	0.112	PQL	mg/Kg	
SL-180-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0855	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.447	PQL	mg/Kg	
	SILVER	J	0.0477	0.112	PQL	mg/Kg	
SL-180-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0863	0.479	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0467	0.120	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA6-SB-0.0-0.5	HEXAVALENT CHROMIUM	J	0.28	0.99	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-20.0-21.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.2	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.27	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-122-SA6-SB-0.0-0.5	MERCURY	J	0.0136	0.0986	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-4.0-5.0	MERCURY	J	0.0700	0.109	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	MERCURY	J	0.0790	0.105	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	MERCURY	J	0.0189	0.101	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.116	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	MERCURY	J	0.0175	0.110	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	MERCURY	J	0.0096	0.116	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	EFH (C15-C20)	J	9.2	14	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.71	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.82	2.0	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	BENZO(A)ANTHRACENE	J	50	190	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	57	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	85	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	65	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	28	190	PQL	ug/Kg	
	CHRYSENE	J	54	190	PQL	ug/Kg	
	FLUORANTHENE	J	89	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	190	PQL	ug/Kg	
	PHENANTHRENE	J	21	190	PQL	ug/Kg	
	PYRENE	J	95	190	PQL	ug/Kg	
SL-123-SA6-SB-7.0-8.0	BENZO(G,H,I)PERYLENE	J	28	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	130	360	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	19	180	PQL	ug/Kg	
SL-180-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	59	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	Butylbenzylphthalate	J	8.2	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
SL-122-SA6-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.7	8.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.4	8.4	PQL	ug/Kg	
	Butylbenzylphthalate	J	36	91	PQL	ug/Kg	
	CHRYSENE	J	4.2	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	59	91	PQL	ug/Kg	
	FLUORANTHENE	J	4.4	8.4	PQL	ug/Kg	
	PYRENE	J	4.3	8.4	PQL	ug/Kg	
SL-123-SA6-SB-4.0-5.0	ANTHRACENE	J	3.3	9.1	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	98	PQL	ug/Kg	
	Butylbenzylphthalate	J	38	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	55	98	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA6-SB-7.0-8.0	ACENAPHTHENE	J	4.1	9.1	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	58	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	70	98	PQL	ug/Kg	
	Di-n-octylphthalate	J	41	98	PQL	ug/Kg	
SL-125-SA6-SB-20.0-21.0	ACENAPHTHENE	J	6.1	9.6	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	2.4	9.6	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	46	100	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.9	9.6	PQL	ug/Kg	
	Di-n-butylphthalate	J	56	100	PQL	ug/Kg	
SL-125-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	3.7	9.1	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	84	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	57	98	PQL	ug/Kg	
SL-126-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.93	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.6	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	19	PQL	ug/Kg	
SL-126-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.8	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.5	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
SL-174-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	7.0	9.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	100	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.4	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.7	9.7	PQL	ug/Kg	
SL-174-SA5DN-SB-9.0-10.0	ANTHRACENE	J	0.39	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.9	21	PQL	ug/Kg	
	CHRYSENE	J	0.42	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	21	PQL	ug/Kg	
	PHENANTHRENE	J	0.85	1.9	PQL	ug/Kg	
	PYRENE	J	0.91	1.9	PQL	ug/Kg	
SL-180-SA5DN-SB-4.0-5.0	ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	10	21	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	15	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.9	PQL	ug/Kg	
SL-180-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	110	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	56	110	PQL	ug/Kg	

LDC #: 26533C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11

SDG #: DE212 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: ~

2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates: 7/19/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by EB/TB
V.	ICP Interference Check Sample (ICS) Analysis	N	✓ ✓ ✓ ✓ ✓ ✓ ✓
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, P, Ti, V, Zn >4X (No qual for all)
VII.	Duplicate Sample Analysis	SW	Sb, Hg, Se, Ag, Zr <5X, Cd: 0.506 (V RPD out J/UJ)
VIII.	Laboratory Control Samples (LCS)	N A	(difference) ≤0, >1>) J/UJ.
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil

1	SL-180-SA5DN-SB-4.0-5.0	11	SL-126-SA6-SB-9.0-10.0	21	MB	31	
2	SL-180-SA5DN-SB-9.0-10.0	12	DUP10-SA6-QC-072911	22		32	
3	SL-174-SA5DN-SB-4.0-5.0	13	SL-125-SA6-SB-4.0-5.0MS	23		33	
4	SL-174-SA5DN-SB-9.0-10.0	14	SL-125-SA6-SB-4.0-5.0MSD	24		34	
5	SL-122-SA6-SB-0.0-0.5	15	SL-125-SA6-SB-4.0-5.0DUP	25		35	
6	SL-123-SA6-SB-4.0-5.0	16		26		36	
7	SL-123-SA6-SB-7.0-5.0	17		27		37	
8	SL-125-SA6-SB-4.0-5.0	18		28		38	
9	SL-125-SA6-SB-20.0-21.0	19		29		39	
10	SL-126-SA6-SB-4.0-5.0	20		30		40	

Notes: _____

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE212
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6360506BKG Matrix Spike Lab Sample ID: 6360507MS Matrix Spike Duplicate Lab Sample ID: 6360508MSD
% Solids for Sample: 91.4
Batch Id(s): P21408G, P21426C, P21411D

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		17450.8103		15931.8520		22996.9322		214.5278	218.8184	MG/KG	-708		2535		36	*		20	P
Antimony	121	0.1294	B	0.5245		0.6093		1.3129	1.2872	MG/KG	30	N	37	N	15		75 - 125	20	MS
Arsenic	75	4.4528		6.6280		7.9397		2.1882	2.1453	MG/KG	99		163	N	18		75 - 125	20	MS
Barium	137	75.8641		99.5842		93.6628		10.9409	10.7264	MG/KG	217		166		6			20	MS
Beryllium	9	0.5184		1.2560		1.1799		0.8753	0.8581	MG/KG	84		77		6		75 - 125	20	MS
Boron		5.8128		211.3603		216.7768		214.5278	218.8184	MG/KG	96		96		3		84 - 115	20	P
Cadmium	111	0.2018		1.2597		1.2548		1.0941	1.0726	MG/KG	97		98		0		75 - 125	20	MS
Calcium		26421.0618		18242.1805		28068.6258		429.0556	437.6368	MG/KG	-1906		376		42	*		20	P
Chromium	52	21.1914		36.6083		23.7482		10.9409	10.7264	MG/KG	141	N	24	N	43	*	75 - 125	20	MS
Cobalt	59	7.1721		58.2276		60.6256		54.7046	53.6320	MG/KG	93		100		4		75 - 125	20	MS
Copper	63	11.1470		21.9912		23.7268		10.9409	10.7264	MG/KG	99		117		8		75 - 125	20	MS
Iron		23757.9609		18283.3001		25846.8370		107.2639	109.4092	MG/KG	-5104		1909		34	*		20	P
Lead	208	6.7834		10.0066		12.3675		3.2823	3.2179	MG/KG	98		174	N	21	*	75 - 125	20	MS
Lithium		24.2412		133.7667		145.2702		107.2639	109.4092	MG/KG	102		111		8		82 - 114	20	P
Magnesium		5991.5592		4905.4801		7050.1477		214.5278	218.8184	MG/KG	-506		484		36	*		20	P
Manganese		272.1440		287.2667		357.9300		53.6320	54.7046	MG/KG	28		157		22	*		20	P
Mercury		0.0790	B	0.2041		0.1836		0.1744	0.1700	MG/KG	72		62	N	11		65 - 135	20	CV
Molybdenum	98	0.3459		10.8337		10.8744		10.9409	10.7264	MG/KG	96		98		0		75 - 125	20	MS
Nickel	60	13.6538		27.8337		20.0584		10.9409	10.7264	MG/KG	130	N	60	N	32	*	75 - 125	20	MS
Phosphorus		527.3198		485.2748		597.9847		107.2639	109.4092	MG/KG	-39		65		21	*		20	P
Potassium		3605.4910		4078.3413		5589.6039		1072.6391	1094.0919	MG/KG	44	N	181	N	31	*	75 - 125	20	P
Selenium	78	0.1659	B	2.2560		2.2161		2.1882	2.1453	MG/KG	96		96		2		75 - 125	20	MS
Silver	107	0.0238	B	10.9322		10.7886		10.9409	10.7264	MG/KG	100		100		1		75 - 125	20	MS
Sodium		226.7023		1233.7989		1305.7144		1072.6391	1094.0919	MG/KG	94		99		6		75 - 125	20	P
Strontium		57.9825		144.9586		162.2429		107.2639	109.4092	MG/KG	81		95		11		75 - 115	20	P
Thallium	203	0.2626		0.6786		0.6389		0.4376	0.4291	MG/KG	95		88		6		75 - 125	20	MS
Tin		2.9638	B	394.3214		390.8042		429.0556	437.6368	MG/KG	91		89		1		80 - 110	20	P
Titanium		1131.9962		1123.2076		1524.6488		107.2639	109.4092	MG/KG	-8		359		30	*		20	P
Vanadium	51	44.7409		53.2604		44.0855		10.9409	10.7264	MG/KG	78		-6		19			20	MS
Zinc	66	55.2782		62.7790		54.7260		10.9409	10.7264	MG/KG	69		-5		14			20	MS
Zirconium		5.5495		115.1553		113.0700		107.2639	109.4092	MG/KG	102		98		2		75 - 125	20	P

22-JUL-22

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE212
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6360506BKG
% Solids for Duplicate: 92.4
Batch ID(s): P21408G, P21426C, P21411D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6360509DUP
% Solids for Sample: 91.4

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17450.8103		17299.9292		1		P
Antimony	121		0.1294	B	0.0944	B	31		MS
Arsenic	75		4.4528		4.7593		7		MS
Barium	137		75.8641		78.3538		3		MS
Beryllium	9	0.1	0.5184		0.6034		15		MS
Boron		5.4	5.8128		5.8384		0		P
Cadmium	111	0.1	0.2018		0.4524		77	*	MS
Calcium			26421.0618		21653.7703		20		P
Chromium	52		21.1914		24.9327		16		MS
Cobalt	59		7.1721		7.8690		9		MS
Copper	63		11.1470		12.6010		12		MS
Iron			23757.9609		22331.5785		6		P
Lead	208		6.7834		7.0422		4		MS
Lithium			24.2412		24.2963		0		P
Magnesium			5991.5592		5753.8079		4		P
Manganese			272.1440		265.1017		3		P
Mercury			0.0790	B	0.0641	B	21		CV
Molybdenum	98	0.1	0.3459		0.3909		12		MS
Nickel	60		13.6538		15.7844		14		MS
Phosphorus			527.3198		465.1317		13		P
Potassium			3605.4910		3541.0950		2		P
Selenium	78		0.1659	B	0.2059	B	22		MS
Silver	107		0.0238	B	0.0382	B	46		MS
Sodium		108.3	226.7023		197.0084		14		P
Strontium			57.9825		46.8100		21	*	P
Thallium	203	0.1	0.2626		0.2851		8		MS
Tin			2.9638	B	2.7878	B	6		P
Titanium			1131.9962		1105.6324		2		P
Vanadium	51		44.7409		51.1488		13		MS
Zinc	66		55.2782		58.9337		6		MS
Zirconium		5.4	5.5495		7.3958		29		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

cd difference 0.2506 mg/kg (≤ 0.212)

DE212 2938

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

SAMPLE DELIVERY GROUP

DE213

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3050B	6010B	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3050B	6020	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3060A	7199	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8082	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8270C	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8270C SIM	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	300.0	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	314.0	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	7471A	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3050B	6010B	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3050B	6020	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3060A	7199	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8082	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8270C	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8270C SIM	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	300.0	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	314.0	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	7471A	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3050B	6010B	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3050B	6020	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3060A	7199	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8082	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8270C	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8270C SIM	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	300.0	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	7471A	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3050B	6010B	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3050B	6020	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3060A	7199	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8082	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8270C	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8270C SIM	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	300.0	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	314.0	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	7471A	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3050B	6010B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3050B	6020	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3060A	7199	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8015B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8015M	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8082	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8270C	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8270C SIM	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	5035	8015M	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	300.0	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	314.0	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	7471A	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	8015B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	8015M	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3050B	6010B	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3060A	7199	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8082	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8270C	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8270C SIM	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	300.0	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	314.0	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	7471A	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3050B	6010B	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3050B	6020	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3060A	7199	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8082	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8270C	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8270C SIM	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	300.0	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	314.0	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	7471A	III
01-Aug-2011	TB-080111	6361780	TB	5030B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8315A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	9012B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8270C SIM	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	9012B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	9012B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3050B	6010B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3050B	6020	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3060A	7199	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3546	1625C	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8082	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8270C	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8270C SIM	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	5035	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	8330	8330A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	300.0	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	314.0	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	7471A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	DUP22-SA5DN-QC-080111	P361781	FD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111MSD	P361781M240123A	MSD	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111MSD	P361781M322139A	MSD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111MS	P361781R240104A	MS	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111MS	P361781R322124A	MS	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8270C SIM	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8315A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 ***Collected:*** 8/1/2011 2:52:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.88	MDL	1.1	PQL	mg/Kg	J	FD
Nitrate-NO3	1.5	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 2:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.87	MDL	1.1	PQL	mg/Kg	J	FD

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 ***Collected:*** 8/1/2011 2:52:00 PM ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	19500		2.73	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5670		0.480	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	3240		12.3	MDL	54.5	PQL	mg/Kg	J	Q, A

Sample ID: DUP22-SA5DN-QC-080111 ***Collected:*** 8/1/2011 2:52:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	323		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.59	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2660		2.52	MDL	20.2	PQL	mg/Kg	J	E, A
MAGNESIUM	4500		0.443	MDL	10.1	PQL	mg/Kg	J	A
POTASSIUM	2880		11.4	MDL	50.4	PQL	mg/Kg	J	Q, A
SODIUM	94.1	J	6.00	MDL	101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected:** 8/1/2011 10:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	319		0.353	MDL	10.1	PQL	mg/Kg	J	Q
TIN	2.53	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.25	J	0.463	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 12:01:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5740		2.65	MDL	21.2	PQL	mg/Kg	J	E, A
MAGNESIUM	5100		0.466	MDL	10.6	PQL	mg/Kg	J	A
POTASSIUM	3370		12.0	MDL	53.0	PQL	mg/Kg	J	Q, A

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 12:01:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	416		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.59	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.488	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 12:02:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	34200		2.84	MDL	22.7	PQL	mg/Kg	J	E, A
MAGNESIUM	6560		0.499	MDL	11.3	PQL	mg/Kg	J	A
POTASSIUM	3690		12.8	MDL	56.7	PQL	mg/Kg	J	Q, A

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 12:02:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	292		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.83	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.66	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	38600		2.78	MDL	22.2	PQL	mg/Kg	J	E, A
MAGNESIUM	6220		0.489	MDL	11.1	PQL	mg/Kg	J	A
POTASSIUM	3170		12.5	MDL	55.5	PQL	mg/Kg	J	Q, A

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	283		0.389	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.54	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	22100		2.83	MDL	22.7	PQL	mg/Kg	J	E, A
MAGNESIUM	5670		0.498	MDL	11.3	PQL	mg/Kg	J	A
POTASSIUM	2470		12.8	MDL	56.6	PQL	mg/Kg	J	Q, A

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	201		0.396	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.78	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.38	J	0.521	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	18700		2.73	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	4810		0.480	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	2960		12.3	MDL	54.5	PQL	mg/Kg	J	Q, A
SODIUM	98.8	J	6.49	MDL	109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 2:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	334		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.85	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	16300		2.79	MDL	22.3	PQL	mg/Kg	J	E, A
MAGNESIUM	5930		0.491	MDL	11.2	PQL	mg/Kg	J	A
POTASSIUM	2540		12.6	MDL	55.8	PQL	mg/Kg	J	Q, A

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	183		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.63	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.62	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	15100		2.68	MDL	21.4	PQL	mg/Kg	J	E, A
MAGNESIUM	5320		0.471	MDL	10.7	PQL	mg/Kg	J	A
POTASSIUM	3350		12.1	MDL	53.5	PQL	mg/Kg	J	Q, A

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	422		0.375	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.37	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	13400		2.75	MDL	22.0	PQL	mg/Kg	J	E, A
MAGNESIUM	5750		0.484	MDL	11.0	PQL	mg/Kg	J	A
POTASSIUM	2850		12.4	MDL	54.9	PQL	mg/Kg	J	Q, A

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	3.01	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.563		0.0535	MDL	0.107	PQL	mg/Kg	J	Q, E

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.184	J	0.0791	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	7.30		0.0855	MDL	0.428	PQL	mg/Kg	J	Q
CADMIUM	0.504		0.0470	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	17.1		0.0855	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	10.9		0.0109	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	23.0		0.107	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.126		0.0152	MDL	0.107	PQL	mg/Kg	J	Q, FD
THALLIUM	0.394		0.0321	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.667		0.0509	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0954	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
CADMIUM	0.772		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	9.48		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	17.0		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0639	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.241		0.0305	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.572		0.0546	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0834	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	5.60		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.319		0.0480	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.1		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	8.64		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	15.2		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0484	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.250		0.0327	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.529		0.0567	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	7.70		0.0908	MDL	0.454	PQL	mg/Kg	J	Q
CADMIUM	0.393		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	17.0		0.0908	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	10.6		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	27.1		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0559	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.388		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 10:03:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0963	J	0.0644	MDL	0.444	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-173-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 10:03:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.494		0.0555	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-173-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 10:03:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	8.38		0.0888	MDL	0.444	PQL	mg/Kg	J	Q
CADMIUM	0.408		0.0489	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	16.4		0.0888	MDL	0.444	PQL	mg/Kg	J	Q
LEAD	9.81		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0398	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.323		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-173-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 10:05:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0869	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 10:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.562		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-173-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 10:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0838	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	9.02		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.122		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	31.2		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	9.66		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0429	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.398		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 2:45:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 2:45:00 PM ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.561		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-175-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 2:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	5.66		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.311		0.0466	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	13.7		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	9.31		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	19.2		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0517	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.341		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.646		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.223		0.0818	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	9.80		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.190		0.0486	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	19.8		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.6		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	26.6		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0771	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.412		0.0332	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.590		0.0540	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	5.94		0.0865	MDL	0.432	PQL	mg/Kg	J	Q
CADMIUM	0.251		0.0476	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	15.5		0.0865	MDL	0.432	PQL	mg/Kg	J	Q
LEAD	9.16		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	17.8		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0576	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0324	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 8:23:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.105	J	0.0656	MDL	0.453	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-176-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 8:23:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.575		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: **SL-176-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 8:23:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.155	J	0.0837	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	8.96		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.121		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	17.6		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	11.6		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0638	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.404		0.0339	MDL	0.113	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: **DUP22-SA5DN-QC-080111** ***Collected:*** **8/1/2011 2:52:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-127-SA6-SB-2.0-3.0** ***Collected:*** **8/1/2011 10:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-170-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 12:01:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 7199 **Matrix:** SO

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 12:02:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 2:53:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 7471A **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	U	0.0074	MDL	0.105	PQL	mg/Kg	UJ	FD

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected:** 8/1/2011 10:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0375	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 7471A **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z, FD

Method Category: SVOA **Method:** 1625C **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	156		18.4	MDL	36.7	PQL	ng/Kg	J	FD

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	370		184	MDL	367	PQL	ng/Kg	J	FD

Method Category: SVOA **Method:** 8015M **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	6.0		0.88	MDL	2.6	PQL	mg/Kg	J	FD
EFH (C30-C40)	22		0.88	MDL	2.6	PQL	mg/Kg	J	FD

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	17		2.2	MDL	6.6	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8015M **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** REA2 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	76		2.2	MDL	6.6	PQL	mg/Kg	J	FD

Method Category: SVOA **Method:** 8082 **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.92	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z, FD
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, FD

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 12:02:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.7		0.43	MDL	1.9	PQL	ug/Kg	J	FD
Aroclor 5460	3.7		1.1	MDL	3.6	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 8:23:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.91	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 ***Collected:*** 8/1/2011 2:52:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	66	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	68	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	88	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	77	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	93	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	96	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8270C **Matrix:** SO

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	42	J	18	MDL	370	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

Method Category: SVOA **Method:** 8270C SIM **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.90	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	3.6		0.37	MDL	1.8	PQL	ug/Kg	J	FD
FLUORANTHENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	2.8		0.73	MDL	1.8	PQL	ug/Kg	J	FD
PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.81	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.75	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 10:03:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.84	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.78	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 10:05:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 2:45:00 PM** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.81	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.86	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	0.87	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 2:53:00 PM** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.83	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	880	U	880	MDL	2600	PQL	ug/Kg	UJ	L

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	880	U	880	MDL	2600	PQL	ug/Kg	UJ	L

Sample ID: SL-175-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 2:53:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	920	U	920	MDL	2800	PQL	ug/Kg	UJ	L

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category:	VOA		
Method:	8015B	*Matrix:*	SO

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE213

Method Blank Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP22-SA5DN-QC-080111(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-127-SA6-SB-2.0-3.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	36 55 57	49 - -	59.00-109.00 63.00-107.00 63.00-107.00	31 (20.00) 28 (20.00) 26 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	EFH (C21-C30)	578	601	49.00-123.00	-	EFH (C21-C30)	No Qual, Diluted Out
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C30-C40) EFH (C8-C11)	0 0 -325 0	0 0 -314 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - - -	EFH (C12-C14) EFH (C15-C20) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	70 74	73 -	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ARSENIC CADMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	139 130 128 159 - - - - 174	143 138 137 165 134 131 132 130 180	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) V, Zn, No Qual, >4x
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ANTIMONY	42	44	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	MOLYBDENUM	-	127	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-175-SA5DN-SB-4.0-5.0MS **SL-175-SA5DN-SB-4.0-5.0MSD** (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	BARIUM	218	304	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS **SL-175-SA5DN-SB-4.0-5.0MSD** (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ALUMINUM	831	950	75.00-125.00	-	ALUMINUM	J(all detects) Al, Mg, Ti No Qual, >4x
	MAGNESIUM	171	256	75.00-125.00	-	MAGNESIUM	
	POTASSIUM	-	163	75.00-125.00	-	POTASSIUM	
	TITANIUM	132	194	75.00-125.00	-	TITANIUM	
SL-175-SA5DN-SB-4.0-5.0MS **SL-175-SA5DN-SB-4.0-5.0MSD** (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	CALCIUM	-790	139	75.00-125.00	23 (20.00)	CALCIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
	IRON	-1590	-1481	75.00-125.00	-	IRON	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	PHOSPHORUS	65	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 1625C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	54	53	70.00-130.00	-	N-NITROSODIMETHYLAMINE	No Qual, Diluted Out

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	1,2-Diphenylhydrazine/Azobenzen 2-METHYLPHENOL BENZOIC ACID Di-n-octylphthalate	- 118 - 130	133 - - -	71.00-129.00 75.00-111.00 10.00-173.00 56.00-126.00	- - 91 (30.00) -	1,2-Diphenylhydrazine/Azobenz 2-METHYLPHENOL BENZOIC ACID Di-n-octylphthalate	J(all detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	1,3-DICHLOROBENZENE BENZIDINE	60 22	- 23	63.00-109.00 35.00-141.00	- -	1,3-DICHLOROBENZENE BENZIDINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	FLUORIDE	47	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	LEAD MOLYBDENUM	48 23	20.00 20.00	J(all detects) UJ(all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	45	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	MERCURY	43	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (DUP22-SA5DN-QC-080111 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	J (all detects) UJ (all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21708BQ221522	ALUMINUM	152	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC limits
P21708BQ221543	IRON	132	-	80.00-120.00	-	IRON	
(DUP22-SA5DN-QC-080111	MAGNESIUM	125	-	80.00-120.00	-	MAGNESIUM	
SL-127-SA6-SB-2.0-3.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL-170-SA5DN-SB-4.0-5.0							
SL-170-SA5DN-SB-9.0-10.0							
SL-173-SA5DN-SB-4.0-5.0							
SL-173-SA5DN-SB-9.0-10.0							
SL-175-SA5DN-SB-4.0-5.0							
SL-175-SA5DN-SB-9.0-10.0							
SL-176-SA5DN-SB-4.0-5.0							
SL-176-SA5DN-SB-9.0-10.0)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3LDLCSQ261043	4-BROMOPHENYL-PHENYLETH	118	-	79.00-117.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)
(DUP22-SA5DN-QC-080111							
SL-127-SA6-SB-2.0-3.0							
SL-170-SA5DN-SB-4.0-5.0							
SL-170-SA5DN-SB-9.0-10.0							
SL-173-SA5DN-SB-4.0-5.0							
SL-173-SA5DN-SB-9.0-10.0							
SL-175-SA5DN-SB-4.0-5.0							
SL-175-SA5DN-SB-9.0-10.0							
SL-176-SA5DN-SB-4.0-5.0							
SL-176-SA5DN-SB-9.0-10.0)							

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MOISTURE	9.2	9.2	0		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
N-NITROSODIMETHYLAMINE	370	156	81	50.00	J(all detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
Nitrate-NO3	2.3	1.5	42	50.00	No Qualifiers Applied
FLUORIDE	2.5	4.4	55	50.00	J(all detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
ALUMINUM	20800	23400	12	50.00	No Qualifiers Applied
BORON	8.12	10.2	23	50.00	
CALCIUM	18700	19500	4	50.00	
IRON	23100	24200	5	50.00	
LITHIUM	23.5	24.2	3	50.00	
MAGNESIUM	4810	5670	16	50.00	
MANGANESE	317	317	0	50.00	
PHOSPHORUS	334	323	3	50.00	
POTASSIUM	2960	3240	9	50.00	
SODIUM	98.8	111	12	50.00	
STRONTIUM	32.3	35.7	10	50.00	
TIN	2.85	2.59	10	50.00	
TITANIUM	1260	1250	1	50.00	
Zirconium	2.03	2.69	28	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
ANTIMONY	0.163	0.184	12	50.00	
ARSENIC	5.66	7.30	25	50.00	
BARIUM	136	158	15	50.00	
BERYLLIUM	0.792	0.900	13	50.00	
CADMIUM	0.311	0.504	47	50.00	
CHROMIUM	27.1	33.8	22	50.00	
COBALT	8.30	9.84	17	50.00	
COPPER	13.7	17.1	22	50.00	No Qualifiers Applied
LEAD	9.31	10.9	16	50.00	
MOLYBDENUM	0.561	0.563	0	50.00	
NICKEL	19.2	23.0	18	50.00	
SELENIUM	0.132	0.127	4	50.00	
THALLIUM	0.341	0.394	14	50.00	
VANADIUM	49.7	63.6	25	50.00	
ZINC	75.9	83.3	9	50.00	
SILVER	0.0517	0.126	84	50.00	J(all detects)

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
HEXAVALENT CHROMIUM	0.60	0.50	18	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MERCURY	0.0142	0.105 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
EFH (C21-C30)	17	6.0	96	50.00	J(all detects)
EFH (C30-C40)	76	22	110	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
AROCLOR 1260	2.7	0.92	98	50.00	J(all detects)
Aroclor 5460	3.7	1.7	74	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
2-METHYLNAPHTHALENE	0.81	0.90	11	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	2.0	1.9	5	50.00	
FLUORANTHENE	0.86	1.0	15	50.00	
PYRENE	0.87	1.3	40	50.00	
BENZO(A)PYRENE	0.83	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	1.4	1.8 U	200	50.00	
CHRYSENE	1.0	3.6	113	50.00	
PHENANTHRENE	1.5	2.8	60	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
PH	8.37	8.18	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	TIN	J	2.59	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.69	5.45	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	SODIUM	J	94.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	10.1	PQL	mg/Kg	
	Zirconium	J	1.25	5.04	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	TIN	J	2.59	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.55	5.30	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	TIN	J	2.83	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.66	5.67	PQL	mg/Kg	
SL-173-SA5DN-SB-4.0-5.0	TIN	J	2.54	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.87	5.55	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	TIN	J	2.78	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.38	5.66	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	SODIUM	J	98.8	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.9	PQL	mg/Kg	
	Zirconium	J	2.03	5.45	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	TIN	J	2.63	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.62	5.58	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	TIN	J	2.37	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.35	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	TIN	J	3.01	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.01	5.49	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	ANTIMONY	J	0.184	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.428	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	ANTIMONY	J	0.0954	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.407	PQL	mg/Kg	
	SILVER	J	0.0639	0.102	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0834	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.437	PQL	mg/Kg	
	SILVER	J	0.0484	0.109	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.202	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.454	PQL	mg/Kg	
	SILVER	J	0.0559	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.154	0.222	PQL	mg/Kg	
	SELENIUM	J	0.0963	0.444	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0398	0.111	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.140	0.227	PQL	mg/Kg	
	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.163	0.212	PQL	mg/Kg	
	SELENIUM	J	0.132	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0517	0.106	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	SELENIUM	J	0.102	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0771	0.111	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.216	PQL	mg/Kg	
	SELENIUM	J	0.113	0.432	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0576	0.108	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.155	0.226	PQL	mg/Kg	
	SELENIUM	J	0.105	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0638	0.113	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.47	1.2	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.1	PQL	mg/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SB-2.0-3.0	MERCURY	J	0.0375	0.102	PQL	mg/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	MERCURY	J	0.0113	0.110	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	MERCURY	J	0.0142	0.104	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	AROCLOR 1260	J	0.92	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
SL-170-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.89	2.0	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.65	1.9	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.67	1.9	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-176-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.91	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	370	PQL	ug/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	BENZO(A)ANTHRACENE	J	66	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	68	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	88	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	58	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	39	170	PQL	ug/Kg	
	CHRYSENE	J	77	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	93	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	45	170	PQL	ug/Kg	
	PHENANTHRENE	J	32	170	PQL	ug/Kg	
	PYRENE	J	96	170	PQL	ug/Kg	
SL-170-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	25	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	42	370	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	20	180	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	2-METHYLNAPHTHALENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-127-SA6-SB-2.0-3.0	ANTHRACENE	J	2.2	8.6	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.9	PQL	ug/Kg	
SL-173-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	0.78	1.9	PQL	ug/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-173-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
	PYRENE	J	0.87	1.8	PQL	ug/Kg	
SL-175-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	1.9	PQL	ug/Kg	

LDC #: 26533D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/5/11
SDG #: DE213 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates: 8/1/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by MB/CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	RPD not
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, V, Zn >4X (No qual for %R)
VII.	Duplicate Sample Analysis	SW	Pb, Mo J/UJ (No <5XRL)
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ca, Mg, K, Fe J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil

1	SL-170-SA5DN-SB-4.0-5.0	11	SL-175-SA5DN-SB-4.0-5.0MS	21	MB	31	
2	SL-170-SA5DN-SB-9.0-10.0	12	SL-175-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-173-SA5DN-SB-4.0-5.0	13	SL-175-SA5DN-SB-4.0-5.0DUP	23		33	
4	SL-173-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-175-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-175-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-176-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-176-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-127-SA6-SB-2.0-3.0	19		29		39	
10	DUP22-SA5DN-QC-080111	20		30		40	

Notes:

SL-175-SA30N-SB-4.0-5.0 (VE213) & Acfr DE214

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
% Solids for Sample: 90.8
Batch Id(s): P21708B, P21726A, P21511B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831		950		1			20	P
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42	N	44	N	4		75 - 125	20	MS
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139	N	143	N	1		75 - 125	20	MS
Barium	137	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218		304		6			20	MS
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108		116		4		75 - 125	20	MS
Boron		8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102		100		1		84 - 115	20	P
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130	N	138	N	5		75 - 125	20	MS
Calcium		18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790		139		23	*		20	P
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119		111		2		75 - 125	20	MS
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118		125		5		75 - 125	20	MS
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128	N	137	N	3		75 - 125	20	MS
Iron		23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590		-1481		1			20	P
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159	N	165	N	1		75 - 125	20	MS
Lithium		23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98		99		1		82 - 114	20	P
Magnesium		4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171		256		3			20	P
Manganese		317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116		87		4			20	P
Mercury		0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100		97		1		65 - 135	20	CV
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119		127	N	6		75 - 125	20	MS
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122		134	N	4		75 - 125	20	MS
Phosphorus		333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65	N	93		7		75 - 125	20	P
Potassium		2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124		163	N	9		75 - 125	20	P
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111		118		6		75 - 125	20	MS
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123		131	N	6		75 - 125	20	MS
Sodium		98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105		110		5		75 - 125	20	P
Strontium		32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97		100		3		75 - 115	20	P
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112		132	N	10		75 - 125	20	MS
Tin		2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88		89		1		80 - 110	20	P
Titanium		1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132		194		5			20	P
Vanadium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108		130		4			20	MS
Zinc	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174		180		1			20	MS
Zirconium		2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96		97		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE214

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6010B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6020	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3060A	7199	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8082	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C SIM	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	5035	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	300.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	314.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	7471A	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015M	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6010B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6020	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3060A	7199	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8082	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C SIM	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	7471A	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271800A	DUP	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271842A	DUP	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271824A	MS	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271856A	MS	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	314.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3005A	6010B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3020A	6020	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8082	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3520C	1625C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	8330	8330A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	300.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	314.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	7199	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	7470A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	8315A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	9012B	III
02-Aug-2011	EB-SA6-SB-080211MSD	P363167M321941A	MSD	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211MS	P363167R321926A	MS	Gen Prep	8015B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	6850	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	7471A	III
02-Aug-2011	TB-080211	6363171	TB	5030B	8015M	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6010B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.0		0.87	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.88	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.84	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	12.8		0.91	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.90	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.93	MDL	1.2	PQL	mg/Kg	J	E

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.6	U	9.6	MDL	32.1	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.9	U	9.9	MDL	33.0	PQL	ug/Kg	UJ	Q

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.7	U	9.7	MDL	32.3	PQL	ug/Kg	UJ	Q

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.1	U	10.1	MDL	33.8	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.0	U	10.0	MDL	33.4	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.4	U	10.4	MDL	34.6	PQL	ug/Kg	UJ	Q

Method Category: METALS

Method: 6010B **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0037	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 **Collected: 8/2/2011 12:25:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2470		2.60	MDL	20.8	PQL	mg/Kg	J	E, A
MAGNESIUM	3700		0.457	MDL	10.4	PQL	mg/Kg	J	A
PHOSPHORUS	223		0.363	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2070		11.7	MDL	51.9	PQL	mg/Kg	J	Q, A
SODIUM	70.1	J	6.18	MDL	104	PQL	mg/Kg	J	Z
TIN	2.52	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.09	J	0.478	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA6-SB-7.5-8.5 **Collected: 8/2/2011 12:35:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2610		2.72	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5370		0.479	MDL	10.9	PQL	mg/Kg	J	A
PHOSPHORUS	428		0.381	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2900		12.3	MDL	54.4	PQL	mg/Kg	J	Q, A
TIN	2.75	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.770	J	0.500	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 **Collected: 8/2/2011 8:28:00 AM** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2500		2.61	MDL	20.9	PQL	mg/Kg	J	E, A
MAGNESIUM	4660		0.460	MDL	10.5	PQL	mg/Kg	J	A
PHOSPHORUS	443		0.366	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3530		11.8	MDL	52.3	PQL	mg/Kg	J	Q, A
SODIUM	56.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.56	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	0.996	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA5DN-SB-4.0-5.0 **Collected: 8/2/2011 8:46:00 AM** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.30	J	0.347	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4750		2.71	MDL	21.7	PQL	mg/Kg	J	E, A
MAGNESIUM	7670		0.476	MDL	10.8	PQL	mg/Kg	J	A
POTASSIUM	2800		12.2	MDL	54.1	PQL	mg/Kg	J	Q, A

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	367		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.92	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.28	J	0.503	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5020		2.73	MDL	21.9	PQL	mg/Kg	J	E, A
MAGNESIUM	8470		0.481	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	6070		12.4	MDL	54.6	PQL	mg/Kg	J	Q, A

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4480		2.80	MDL	22.4	PQL	mg/Kg	J	E, A
MAGNESIUM	7640		0.492	MDL	11.2	PQL	mg/Kg	J	A
PHOSPHORUS	366		0.391	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3830		12.6	MDL	55.9	PQL	mg/Kg	J	Q, A
TIN	2.70	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.66	J	0.515	MDL	5.59	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0838	J	0.0768	MDL	0.208	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 **Collected:** 8/2/2011 12:25:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.3		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.120		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	6.95		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	5.24		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	11.5		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0643	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.253		0.0312	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA6-SB-4.0-5.0 **Collected:** 8/2/2011 12:25:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA6-SB-4.0-5.0 **Collected:** 8/2/2011 12:25:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.881		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-128-SA6-SB-7.5-8.5 **Collected:** 8/2/2011 12:35:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0920	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	5.85		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
CADMIUM	0.147		0.0474	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	8.52		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.53		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0364	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.272		0.0323	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA6-SB-7.5-8.5 **Collected:** 8/2/2011 12:35:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.579		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0995	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.78		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0455	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	11.3		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	5.89		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0540	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.344		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.634		0.0518	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.229		0.0809	MDL	0.219	PQL	mg/Kg	J	Q
ARSENIC	11.0		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.0677	J	0.0481	MDL	0.109	PQL	mg/Kg	J	Z, Q
COPPER	17.2		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	13.8		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	25.5		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0931	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.420		0.0328	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.730		0.0547	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0817	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	7.46		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.189		0.0486	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	19.5		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	27.5		0.110	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0493	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.459		0.0331	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.583		0.0552	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: **SL-162-SA5DN-SB-9.0-10.0** ***Collected:*** **8/2/2011 3:15:00 PM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
ARSENIC	8.78		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
CADMIUM	0.0916	J	0.0502	MDL	0.114	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.6		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
LEAD	10.5		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	23.6		0.114	MDL	0.456	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.391		0.0342	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.475		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000036	J	0.000026	MDL	0.00020	PQL	mg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.53		0.543	MDL	1.09	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C15-C20)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C21-C30)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C30-C40)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C8-C11)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.61	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.84	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.55	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	10	U	10	MDL	30	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.015	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BENZO(B)FLUORANTHENE	0.013	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.27	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
CHRYSENE	0.014	J	0.010	MDL	0.051	PQL	ug/L	J	Z
Diethylphthalate	0.086	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.22	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.20	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.044	J	0.031	MDL	0.051	PQL	ug/L	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.88	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.75	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	U	F
PHENANTHRENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Diethylphthalate	12	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Dimethylphthalate	9.8	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.34	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE214

Method Blank Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-080211

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080211(RES)	BORON	0.0037 mg/L	0.0037U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA6-SB-4.0-5.0(REA)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-128-SA6-SB-7.5-8.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-145-SA6-SB-3.5-4.5(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-160-SA5DN-SB-4.0-5.0(REA)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-162-SA5DN-SB-4.0-5.0(REA)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-162-SA5DN-SB-9.0-10.0(REA)	TIN	2.70 mg/Kg	2.70U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080211(RES)	8/2/2011 1:00:00 PM	ANTHRACENE	0.12 ug/L	SL-128-SA6-SB-4.0-5.0
		BENZO(A)ANTHRACENE	0.015 ug/L	SL-128-SA6-SB-7.5-8.5
		BENZO(B)FLUORANTHENE	0.013 ug/L	SL-145-SA6-SB-3.5-4.5
		BIS(2-ETHYLHEXYL)PHTHALATE	0.27 ug/L	
		Butylbenzylphthalate	0.14 ug/L	
		CHRYSENE	0.014 ug/L	
		Diethylphthalate	0.086 ug/L	
		Di-n-butylphthalate	0.22 ug/L	
		Di-n-octylphthalate	0.2 ug/L	
		NAPHTHALENE	0.044 ug/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-145-SA6-SB-3.5-4.5(RES)	ANTHRACENE	0.47 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

***Method:* 314.0**
***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-160-SA5DN-SB-4.0-5.0MS (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	PERCHLORATE	37	-	80.00-120.00	-	PERCHLORATE	J (all detects) UJ (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-160-SA5DN-SB-4.0-5.0DUP (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	FLUORIDE	26	20.00	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12172AQ320723A P12172AY320214A (EB-SA6-SB-080211)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	48 49 48 51 44	50 49 46 46 44	69.00-125.00 77.00-125.00 68.00-124.00 80.00-121.00 46.00-103.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB-SA6-SB-080211)	2,4-DIAMINO-6-NITROTOLUENE 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	123 123 110 133	- - 110 133	50.00-122.00 50.00-122.00 69.00-107.00 80.00-120.00	- - - -	2,4-DIAMINO-6-NITROTOLUEN 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	J(all detects)
P12206AQ240500A (EB-SA6-SB-080211)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12211AY321247A (EB-SA6-SB-080211)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	- - -	130 126 125	78.00-126.00 80.00-124.00 80.00-120.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260032 P8WBLCSY260057 (EB-SA6-SB-080211)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	46 63 -	51 -	52.00-131.00 65.00-126.00 10.00-69.00	- - 32 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21708BQ221522 **P21708BQ221543** (SL-128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	152 132 125 182	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3LDLCSQ261043 (SL-128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-9.0-10.0)	4-BROMOPHENYL-PHENYLETH	118	-	73.00-114.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080211	N-Nitrosodimethylamine-d6	172	50.00-150.00	All Target Analytes	J (all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-162-SA5DN-SB-4.0-5.0	Terphenyl-d14	155	45.00-135.00	No Affected Compounds	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 | **Laboratory: LL**

EDD Filename: DE214_v1. | **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	BORON	J	0.0037	0.0500	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	MERCURY	J	0.000036	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	BENZO(A)ANTHRACENE	J	0.015	0.051	PQL	ug/L	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.013	0.051	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.14	1.0	PQL	ug/L	
	CHRYSENE	J	0.014	0.051	PQL	ug/L	
	Diethylphthalate	J	0.086	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.22	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.20	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.044	0.051	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	4-AMINO-2,6-DINITROTOLUENE	J	0.34	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	SODIUM	J	70.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.4	PQL	mg/Kg	
	Zirconium	J	1.09	5.19	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	TIN	J	2.75	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.770	5.44	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	SODIUM	J	56.2	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.5	PQL	mg/Kg	
	Zirconium	J	0.996	5.23	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	TIN	J	3.30	10.8	PQL	mg/Kg	J (all detects)
SL-162-SA5DN-SB-4.0-5.0	TIN	J	2.92	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.46	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-9.0-10.0	TIN	J	2.70	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.66	5.59	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTIMONY	J	0.0838	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.415	PQL	mg/Kg	
	SILVER	J	0.0643	0.104	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	ANTIMONY	J	0.0920	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.431	PQL	mg/Kg	
	SILVER	J	0.0364	0.108	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	ANTIMONY	J	0.0995	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.414	PQL	mg/Kg	
	SILVER	J	0.0540	0.104	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0677	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.180	0.437	PQL	mg/Kg	
	SILVER	J	0.0931	0.109	PQL	mg/Kg	
SL-162-SA5DN-SB-4.0-5.0	SELENIUM	J	0.191	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0493	0.110	PQL	mg/Kg	
SL-162-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.189	0.228	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0916	0.114	PQL	mg/Kg	
	SELENIUM	J	0.168	0.456	PQL	mg/Kg	
	SILVER	J	0.0350	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-7.5-8.5	AROCLOR 1260	J	0.84	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.55	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTHRACENE	J	0.88	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.98	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.75	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-128-SA6-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	ANTHRACENE	J	0.47	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.73	1.8	PQL	ug/Kg	
SL-162-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	20	PQL	ug/Kg	
	Diethylphthalate	J	12	20	PQL	ug/Kg	
	Dimethylphthalate	J	9.8	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	20	PQL	ug/Kg	
SL-162-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	21	PQL	ug/Kg	J (all detects)

LDC #: 26859A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/27/11
SDG #: DE214 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	TB=4

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-160-SA5DN-SB-4.0-5.0 Soil	11	MB	21		31	
2	SL-162-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-162-SA5DN-SB-9.0-10.0	13		23		33	
4	EB-SA6-SB-080211	14		24		34	
5	SL-128-SA6-SB-4.0-5.0 Soil	15		25		35	
6	SL-128-SA6-SB-7.5-8.5	16		26		36	
7	SL-145-SA6-SB-3.5-4.5	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26859A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: ug/L

Soil preparation factor applied: 200X
Associated Samples: All AQ

Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	4									
Hg			0.037	0.185	0.036									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

(Y) N N/A Were field blanks identified in this SDG?

(Y) N N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 8/2/11 Soil factor applied 100x, Hg: 167X

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil (>5X or ND)

Analyte	Blank ID	Sample Identification											
	4	Action Level											
B	3.7	1.85											
Hg	0.036	0.030											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SL-175-SA5DN-SB-4.0-5.0 (DE213) & Ac for DE214

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
% Solids for Sample: 90.8
Batch Id(s): P21708B, P21726A, P21511B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M	
Aluminum		20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831		950		1			20	P	
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42	N	44	N	4		75 - 125	20	MS	J/UJ
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139	N	143	N	1		75 - 125	20	MS	J/UJ
Barium	137	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218		304		6			20	MS	
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108		116		4		75 - 125	20	MS	
Boron		8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102		100		1		84 - 115	20	P	
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130	N	138	N	5		75 - 125	20	MS	J/UJ
Calcium		18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790		139		23	*		20	P	J/UJ
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119		111		2		75 - 125	20	MS	
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118		125		5		75 - 125	20	MS	
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128	N	137	N	3		75 - 125	20	MS	J/UJ
Iron		23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590		-1481		1			20	P	
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159	N	165	N	1		75 - 125	20	MS	J/UJ
Lithium		23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98		99		1		82 - 114	20	P	
Magnesium		4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171		256		3			20	P	
Manganese		317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116		87		4			20	P	
Mercury		0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100		97		1		65 - 135	20	CV	
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119		127	N	6		75 - 125	20	MS	J/UJ
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122		134	N	4		75 - 125	20	MS	J
Phosphorus		333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65	N	93		7		75 - 125	20	P	J/UJ
Potassium		2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124		163	N	9		75 - 125	20	P	J/UJ
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111		118		6		75 - 125	20	MS	
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123		131	N	6		75 - 125	20	MS	J/UJ
Sodium		98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105		110		5		75 - 125	20	P	
Strontium		32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97		100		3		75 - 115	20	P	
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112		132	N	10		75 - 125	20	MS	J/UJ
Tin		2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88		89		1		80 - 110	20	P	
Titanium		1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132		194		5			20	P	
Vanadium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108		130		4			20	MS	
Zinc	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174		180		1			20	MS	
Zirconium		2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96		97		1		75 - 125	20	P	

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG
% Solids for Duplicate: 90.6
Batch ID(s): P21708B, P21726A, P21511B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6361775DUP
% Solids for Sample: 90.8

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20794.5828		20453.6398		2		P
Antimony	121		0.1631	B	0.1531	B	6		MS
Arsenic	75		5.6591		6.4356		13		MS
Barium	137		136.1826		152.7239		11		MS
Beryllium	9		0.7923		0.8647		9		MS
Boron		5.5	8.1171		8.5860		6		P
Cadmium	111	0.1	0.3111		0.3590		14		MS
Calcium			18664.5058		15254.7108		20		P
Chromium	52		27.0671		28.1546		4		MS
Cobalt	59		8.3044		9.1879		10		MS
Copper	63		13.6522		15.3792		12		MS
Iron			23140.1012		22774.0898		2		P
Lead	208		9.3083		15.1219		48	*	MS
Lithium			23.4985		22.4454		5		P
Magnesium			4808.0593		5156.7947		7		P
Manganese			317.0770		360.3092		13		P
Mercury			0.0142	B	0.0091	B	44		CV
Molybdenum	98		0.5615		0.7105		23	*	MS
Nickel	60		19.2244		19.9416		4		MS
Phosphorus			333.8858		330.3684		1		P
Potassium			2955.8512		3092.9159		5		P
Selenium	78		0.1325	B	0.1308	B	1		MS
Silver	107		0.0517	B	0.0485	B	6		MS
Sodium			98.7624	B	99.9870	B	1		P
Strontium			32.3003		30.9763		4		P
Thallium	203	0.1	0.3408		0.3535		4		MS
Tin			2.8504	B	2.6745	B	6		P
Titanium			1259.1726		1214.1876		4		P
Vanadium	51		49.6654		53.1688		7		MS
Zinc	66		75.8853		84.7472		11		MS
Zirconium			2.0282	B	1.9759	B	3		P

J/UJ

J/UJ

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE213 2688

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Serial Dilution Lab Sample ID: 6361772L
Batch ID(s): P21708B, P21726A
Concentration Units: UG/L

JHJ

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		190702.9600		172045.6500		10		P
Antimony	121	0.7703	B	1.8500	U	100		MS
Arsenic	75	26.7200		27.1500		2		MS
Barium	137	643.0000		622.5000		3		MS
Beryllium	9	3.7410		3.6420		3		MS
Boron		74.4400		106.3500	B	43		P
Cadmium	111	1.4690		1.5650	B	7		MS
Calcium		171168.4500		195448.0500		14	E	P
Chromium	52	127.8000		139.3500		9		MS
Cobalt	59	39.2100		38.5850		2		MS
Copper	63	64.4600		64.9500		1		MS
Iron		212213.2400		198224.8500		7		P
Lead	208	43.9500		43.5650		1		MS
Lithium		215.5000		227.9000		6		P
Magnesium		44093.7500		50199.0500		14	E	P
Manganese		2907.8500		2887.4000		1		P
Molybdenum	98	2.6510		3.2485		23		MS
Nickel	60	90.7700		92.8500		2		MS
Phosphorus		3062.0000		2838.6000		7		P
Potassium		27107.5200		29964.4500		11	E	P
Selenium	78	0.6255	B	1.4500	U	100		MS
Silver	107	0.2441	B	0.3550	U	100		MS
Sodium		905.7300	B	819.6500	B	10		P
Strontium		296.2200		282.3500		5		P
Thallium	203	1.6090		1.8495	B	15		MS
Tin		26.1400	B	24.6000	B	6		P
Titanium		11547.6200		11512.8500		0		P
Vanadium	51	234.5000		256.1000		9		MS
Zinc	66	358.3000		358.1000		0		MS
Zirconium		18.6000	B	26.3000	B	41		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

DE213 2618

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE215

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6010B	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6020	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3060A	7199	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8082	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C SIM	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	300.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	314.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	314.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	300.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	7471A	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6010B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6020	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3060A	7199	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8082	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C SIM	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	300.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	314.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	6850	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	7471A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3005A	6010B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3020A	6020	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8082	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3520C	1625C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	8330	8330A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	300.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	314.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	7199	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	7470A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	8315A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	9012B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C SIM	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	6850	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0DUP	P364584D270032A	DUP	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MSD	P364584M262307	MSD	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R262241	MS	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R270056A	MS	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0DUP	P364585D272104B	DUP	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0MS	P364585R271227B	MS	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3060A	7199	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	6850	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE215 Laboratory: LL

EDD Filename: PrepDE215_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 8:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-8.5-9.5 *Collected:* 8/3/2011 8:44:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.6		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory:** LL

EDD Filename: PrepDE215_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0103	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0855	J	0.0705	MDL	0.200	PQL	mg/L	U	B
STRONTIUM	0.00066	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
TITANIUM	0.00047	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	277		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.55	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.17	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	198		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.77	J	0.339	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory:** LL

EDD Filename: PrepDE215_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-003-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 8:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	400		0.390	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.33	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.73	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.37	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
PHOSPHORUS	233		0.377	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.35	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	0.838	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.82	J	0.370	MDL	5.14	PQL	mg/Kg	U	F
PHOSPHORUS	352		0.360	MDL	10.3	PQL	mg/Kg	J	Q
SODIUM	60.9	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	2.60	J	0.329	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.371	MDL	5.15	PQL	mg/Kg	U	F
PHOSPHORUS	126		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.55	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	319		0.387	MDL	11.1	PQL	mg/Kg	J	Q
SODIUM	107	J	6.58	MDL	111	PQL	mg/Kg	J	Z
TIN	2.69	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	237		0.393	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.62	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.81	J	0.517	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	268		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.52	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	188		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.69	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.506	MDL	5.50	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.117	MDL	0.443	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 2:30:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.38		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.882		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	23.1		0.133	MDL	0.443	PQL	mg/Kg	J	E, E, A
COBALT	6.70		0.0221	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	9.92		0.0885	MDL	0.443	PQL	mg/Kg	J	E, A, Q
LEAD	8.29		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	12.4		0.111	MDL	0.443	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0516	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, E
THALLIUM	0.315		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	47.8		0.0243	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	77.3		0.620	MDL	3.32	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.115	MDL	0.432	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.05		0.0865	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.923		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	27.0		0.130	MDL	0.432	PQL	mg/Kg	J	E, E, A
COBALT	7.29		0.0216	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	9.88		0.0865	MDL	0.432	PQL	mg/Kg	J	E, A, Q
LEAD	9.02		0.0110	MDL	0.216	PQL	mg/Kg	J	E, E, A
NICKEL	15.0		0.108	MDL	0.432	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0617	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	53.5		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	88.0		0.605	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: SL-003-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 8:40:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.222	J	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 8:40:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.124	MDL	0.468	PQL	mg/Kg	J	E, E, A

Sample ID: SL-003-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 8:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0867	MDL	0.234	PQL	mg/Kg	J	Z, Q
ARSENIC	6.97		0.0937	MDL	0.468	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.875		0.0187	MDL	0.117	PQL	mg/Kg	J	Q, E
CHROMIUM	37.6		0.141	MDL	0.468	PQL	mg/Kg	J	E, E, A
COBALT	9.49		0.0234	MDL	0.117	PQL	mg/Kg	J	E, E, A
COPPER	15.5		0.0937	MDL	0.468	PQL	mg/Kg	J	E, A, Q
LEAD	10.0		0.0119	MDL	0.234	PQL	mg/Kg	J	E, E, A
NICKEL	19.7		0.117	MDL	0.468	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0460	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z, E
THALLIUM	0.381		0.0351	MDL	0.117	PQL	mg/Kg	J	Q, E
VANADIUM	73.3		0.0258	MDL	0.117	PQL	mg/Kg	J	E, E, A
ZINC	80.0		0.656	MDL	3.51	PQL	mg/Kg	J	E, A

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0982	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.3		0.116	MDL	0.439	PQL	mg/Kg	J	E, E, A

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	4.56		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.102	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	17.8		0.132	MDL	0.439	PQL	mg/Kg	J	E, E, A
COBALT	5.80		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	6.64		0.0878	MDL	0.439	PQL	mg/Kg	J	E, A, Q
LEAD	6.59		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	10.1		0.110	MDL	0.439	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0423	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.276		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	37.8		0.0241	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	59.1		0.615	MDL	3.29	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0623	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.0		0.107	MDL	0.403	PQL	mg/Kg	J	E, E, A

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0746	U	0.0746	MDL	0.202	PQL	mg/Kg	R	Q
ARSENIC	3.08		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.357		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-004-SA6-SB-1.5-2.5** ***Collected:*** **8/3/2011 11:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0831	J	0.0444	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	13.4		0.121	MDL	0.403	PQL	mg/Kg	J	E, E, A
COBALT	2.92		0.0202	MDL	0.101	PQL	mg/Kg	J	E, E, A
COPPER	4.78		0.0807	MDL	0.403	PQL	mg/Kg	J	E, A, Q
LEAD	3.56		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E, A
NICKEL	6.83		0.101	MDL	0.403	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0143	U	0.0143	MDL	0.101	PQL	mg/Kg	UJ	E
THALLIUM	0.273		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	29.3		0.0222	MDL	0.101	PQL	mg/Kg	J	E, E, A
ZINC	62.0		0.565	MDL	3.02	PQL	mg/Kg	J	E, A

Sample ID: **SL-011-SA6-SB-0.5-1.5** ***Collected:*** **8/3/2011 7:54:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: **SL-011-SA6-SB-0.5-1.5** ***Collected:*** **8/3/2011 7:54:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.0		0.114	MDL	0.429	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-011-SA6-SB-0.5-1.5** ***Collected:*** **8/3/2011 7:54:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	3.72		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.565		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0677	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	16.4		0.129	MDL	0.429	PQL	mg/Kg	J	E, E, A
COBALT	6.10		0.0214	MDL	0.107	PQL	mg/Kg	J	E, E, A
COPPER	16.4		0.0857	MDL	0.429	PQL	mg/Kg	J	E, A, Q
LEAD	4.93		0.0109	MDL	0.214	PQL	mg/Kg	J	E, E, A
NICKEL	8.74		0.107	MDL	0.429	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0323	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
THALLIUM	0.278		0.0322	MDL	0.107	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.9		0.0236	MDL	0.107	PQL	mg/Kg	J	E, E, A
ZINC	57.5		0.600	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.122	MDL	0.460	PQL	mg/Kg	J	E, E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0852	MDL	0.230	PQL	mg/Kg	J	Z, Q
ARSENIC	7.46		0.0921	MDL	0.460	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.20		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	36.1		0.138	MDL	0.460	PQL	mg/Kg	J	E, E, A
COBALT	15.6		0.0230	MDL	0.115	PQL	mg/Kg	J	E, E, A
COPPER	13.6		0.0921	MDL	0.460	PQL	mg/Kg	J	E, A, Q
LEAD	9.89		0.0117	MDL	0.230	PQL	mg/Kg	J	E, E, A
NICKEL	22.8		0.115	MDL	0.460	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0624	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, E
THALLIUM	0.401		0.0345	MDL	0.115	PQL	mg/Kg	J	Q, E
VANADIUM	68.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, E, A
ZINC	75.5		0.644	MDL	3.45	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-9.0-10.0 ***Collected:*** 8/3/2011 11:58:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-9.0-10.0 **Collected:** 8/3/2011 11:58:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.120	MDL	0.454	PQL	mg/Kg	J	E, E, A

Sample ID: SL-188-SA5DN-SB-9.0-10.0 **Collected:** 8/3/2011 11:58:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0839	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	8.25		0.0907	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.19		0.0181	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.110	J	0.0499	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	39.0		0.136	MDL	0.454	PQL	mg/Kg	J	E, E, A
COBALT	13.5		0.0227	MDL	0.113	PQL	mg/Kg	J	E, E, A
COPPER	15.1		0.0907	MDL	0.454	PQL	mg/Kg	J	E, A, Q
LEAD	11.5		0.0116	MDL	0.227	PQL	mg/Kg	J	E, E, A
NICKEL	24.2		0.113	MDL	0.454	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0886	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0340	MDL	0.113	PQL	mg/Kg	J	Q, E
VANADIUM	72.7		0.0250	MDL	0.113	PQL	mg/Kg	J	E, E, A
ZINC	74.5		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: SL-193-SA5DN-SB-4.0-5.0 **Collected:** 8/3/2011 2:00:00 PM **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 **Collected:** 8/3/2011 2:00:00 PM **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	185		0.115	MDL	0.434	PQL	mg/Kg	J	E, E, A

Sample ID: SL-193-SA5DN-SB-4.0-5.0 **Collected:** 8/3/2011 2:00:00 PM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	7.02		0.0867	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-193-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 2:00:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	44.7		0.130	MDL	0.434	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0217	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	24.9		0.0867	MDL	0.434	PQL	mg/Kg	J	E, A, Q
LEAD	12.8		0.0111	MDL	0.217	PQL	mg/Kg	J	E, E, A
NICKEL	31.8		0.108	MDL	0.434	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.503		0.0154	MDL	0.108	PQL	mg/Kg	J	E
THALLIUM	0.432		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	77.8		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	116		0.607	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: SL-193-SA5DN-SB-9.0-10.0 ***Collected:*** 8/3/2011 3:00:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0753	J	0.0644	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 ***Collected:*** 8/3/2011 3:00:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.118	MDL	0.444	PQL	mg/Kg	J	E, E, A

Sample ID: SL-193-SA5DN-SB-9.0-10.0 ***Collected:*** 8/3/2011 3:00:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0888	MDL	0.444	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.01		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	37.2		0.133	MDL	0.444	PQL	mg/Kg	J	E, E, A
COBALT	9.85		0.0222	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	14.7		0.0888	MDL	0.444	PQL	mg/Kg	J	E, A, Q
LEAD	9.46		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E, A
NICKEL	22.0		0.111	MDL	0.444	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.179		0.0158	MDL	0.111	PQL	mg/Kg	J	E
THALLIUM	0.381		0.0333	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	66.8		0.0244	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	71.1		0.622	MDL	3.33	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6020 **Matrix: SO**

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0990	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0112	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 8:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.40		0.508	MDL	1.02	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C15-C20)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C21-C30)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C30-C40)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C8-C11)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 8:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	10	U	10	MDL	29	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.091	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.32	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.22	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: **SL-002-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:30:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.81	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.8	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-002-SA6-SB-9.0-10.0** ***Collected:*** **8/3/2011 2:33:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.65	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.89	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.98	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: **SL-003-SA6-SB-8.5-9.5** ***Collected:*** **8/3/2011 8:44:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 11:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.36	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.59	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.76	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.52	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.54	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE215

Method Blank Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB23-SA5DN-SB-080311

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB23-SA5DN-SB-080311(REA2)	BORON	0.0103 mg/L	0.0103U mg/L
EB23-SA5DN-SB-080311(REA2)	CALCIUM	0.0855 mg/L	0.0855U mg/L
EB23-SA5DN-SB-080311(REA2)	STRONTIUM	0.00066 mg/L	0.00066U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22108CB220608	8/12/2011 6:08:00 AM	ALUMINUM BORON CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	9.51 mg/Kg 0.347 mg/Kg 7.59 mg/Kg 4.32 mg/Kg 1.37 mg/Kg 0.863 mg/Kg 0.0365 mg/Kg 1.58 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA6-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-002-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-003-SA6-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-003-SA6-SB-8.5-9.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-004-SA6-SB-1.5-2.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-011-SA6-SB-0.5-1.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-193-SA5DN-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22126BB221123A	8/11/2011 11:23:00 AM	COPPER	0.206 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA6-SB-9.0-10.0MS (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	61	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA6-SB-4.0-5.0MSD (SL-002-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL PENTACHLOROPHENOL	- -	- -	20.00-143.00 28.00-127.00	46 (30.00) 33 (30.00)	2,4-DINITROPHENOL PENTACHLOROPHENOL	J(all detects)
SL-002-SA6-SB-4.0-5.0MS **SL-002-SA6-SB-4.0-5.0MSD** (SL-002-SA6-SB-4.0-5.0)	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METHA	- 66 29 62	61 62 - 65	63.00-109.00 70.00-100.00 35.00-141.00 75.00-104.00	- - - -	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-002-SA6-SB-9.0-10.0DUP (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	34	20.00	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12172AQ320723A P12172AY320214A (EB23-SA5DN-SB-080311)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	48 49 48 51 44	50 49 46 46 44	69.00-125.00 77.00-125.00 68.00-124.00 80.00-121.00 46.00-103.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB23-SA5DN-SB-080311)	2,4-DIAMINO-6-NITROTOLUENE 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	123 123 110 133	- - 110 133	50.00-122.00 50.00-122.00 69.00-107.00 80.00-120.00	- - - -	2,4-DIAMINO-6-NITROTOLUEN 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	J(all detects)
P12206AQ240500A (EB23-SA5DN-SB-080311)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260032 P8WBLCSY260057 (EB23-SA5DN-SB-080311)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	46 63 -	51 - -	52.00-131.00 65.00-126.00 10.00-69.00	- - 32 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22013EY220828 (EB23-SA5DN-SB-080311)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22126BQ221126A (SL-002-SA6-SB-4.0-5.0 SL -002-SA6-SB-9.0-10.0 SL -003-SA6-SB-4.0-5.0 SL -003-SA6-SB-8.5-9.5 SL -004-SA6-SB-1.5-2.5 SL -011-SA6-SB-0.5-1.5 SL -188-SA5DN -SB-4.0-5.0 SL -188-SA5DN -SB-9.0-10.0 SL -193-SA5DN -SB-4.0-5.0 SL -193-SA5DN -SB-9.0-10.0)	ANTIMONY	72	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22108CQ220612 (SL-002-SA6-SB-4.0-5.0 SL -002-SA6-SB-9.0-10.0 SL -003-SA6-SB-4.0-5.0 SL -003-SA6-SB-8.5-9.5 SL -004-SA6-SB-1.5-2.5 SL -011-SA6-SB-0.5-1.5 SL -188-SA5DN -SB-4.0-5.0 SL -188-SA5DN -SB-9.0-10.0 SL -193-SA5DN -SB-4.0-5.0 SL -193-SA5DN -SB-9.0-10.0)	ALUMINUM	132	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
	TITANIUM	157	-	80.00-120.00	-	TITANIUM	

Surrogate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB23-SA5DN-SB-080311	N-Nitrosodimethylamine-d6	173	50.00-150.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BORON	J	0.0103	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0855	0.200	PQL	mg/L	
	STRONTIUM	J	0.00066	0.0050	PQL	mg/L	
	TITANIUM	J	0.00047	0.0100	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	
	Diethylphthalate	J	0.091	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.32	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.22	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	4-AMINO-2,6-DINITROTOLUENE	J	0.54	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	TIN	J	2.55	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.17	5.59	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	TIN	J	2.77	10.6	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	TIN	J	2.33	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.73	5.58	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	BORON	J	5.37	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	10.8	PQL	mg/Kg	
	Zirconium	J	0.838	5.38	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	BORON	J	3.82	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.9	103	PQL	mg/Kg	
	TIN	J	2.60	10.3	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	BORON	J	4.55	5.15	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.3	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	SODIUM	J	107	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.1	PQL	mg/Kg	
	Zirconium	J	1.69	5.53	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.81	5.62	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	TIN	J	2.52	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.42	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	TIN	J	2.69	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.50	5.50	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	ANTIMONY	J	0.101	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.443	PQL	mg/Kg	
	SILVER	J	0.0516	0.111	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	ANTIMONY	J	0.110	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.432	PQL	mg/Kg	
	SILVER	J	0.0617	0.108	PQL	mg/Kg	
SL-003-SA6-SB-4.0-5.0	ANTIMONY	J	0.144	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.222	0.468	PQL	mg/Kg	
	SILVER	J	0.0460	0.117	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	CADMIUM	J	0.102	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0982	0.439	PQL	mg/Kg	
	SILVER	J	0.0423	0.110	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	CADMIUM	J	0.0831	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0623	0.403	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	CADMIUM	J	0.0677	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.429	PQL	mg/Kg	
	SILVER	J	0.0323	0.107	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.118	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.460	PQL	mg/Kg	
	SILVER	J	0.0624	0.115	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.136	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.110	0.113	PQL	mg/Kg	
	SELENIUM	J	0.120	0.454	PQL	mg/Kg	
	SILVER	J	0.0886	0.113	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.434	PQL	mg/Kg	
SL-193-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.133	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0753	0.444	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-188-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.53	1.2	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	MERCURY	J	0.0990	0.112	PQL	mg/Kg	J (all detects)
SL-002-SA6-SB-9.0-10.0	MERCURY	J	0.0112	0.105	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	MERCURY	J	0.0220	0.109	PQL	mg/Kg	J (all detects)
SL-004-SA6-SB-1.5-2.5	MERCURY	J	0.0077	0.103	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	MERCURY	J	0.0080	0.112	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-9.0-10.0	MERCURY	J	0.0222	0.110	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA6-SB-4.0-5.0	Aroclor 5460	J	2.9	3.8	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.81	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.8	20	PQL	ug/Kg	
	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.9	PQL	ug/Kg	
SL-002-SA6-SB-9.0-10.0	ANTHRACENE	J	0.65	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.98	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.80	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-003-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	2.0	PQL	ug/Kg	
SL-003-SA6-SB-8.5-9.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	6.6	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	0.98	1.8	PQL	ug/Kg	
SL-004-SA6-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
SL-011-SA6-SB-0.5-1.5	CHRYSENE	J	0.36	1.8	PQL	ug/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	0.76	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
SL-193-SA5DN-SB-9.0-10.0	CHRYSENE	J	0.52	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag

LDC #: 26859B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/17/17
SDG #: DE215 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	~~FB=7~~ TB=7
XV	Field Blanks	SW	EB=7

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-002-SA6-SB-4.0-5.0	11	SL-193-SA5DN-SB-9.0-10.0	21	MB	31	
2	SL-002-SA6-SB-9.0-10.0	12		22		32	
3	SL-003-SA6-SB-4.0-5.0	13		23		33	
4	SL-003-SA6-SB-8.5-9.5	14		24		34	
5	SL-004-SA6-SB-1.5-2.5	15		25		35	
6	SL-011-SA6-SB-0.5-1.5	16		26		36	
7	EB23-SA5DN-SB-080311	17		27		37	
8	SL-188-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-188-SA5DN-SB-9.0-10.0	19		29		39	
10	SL-193-SA5DN-SB-4.0-5.0	20		30		40	

Notes: _____

LDC #: 26859B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All AQ Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	7									
Ti			0.25	1.25	0.47									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859B4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: W
2nd Reviewer: A

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 8/3/11 Soil factor applied 100X
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil Reason Code: F

Analyte	Blank ID	Sample Identification											
	7	Action Level	5	6									
B	10.3	5.15	3.8	4.6									
Ca	85.5	42.75											
Sr	0.66	0.33											
Ti	0.47	0.235											
Zn	17.2	8.6											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

DE216 = SL-189-SA5DN-SB -40-50

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE & DE215
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Matrix Spike Lab Sample ID: 6366492MS Matrix Spike Duplicate Lab Sample ID: 6366493MSD
% Solids for Sample: 91.0
Batch Id(s): P22108C, P22126B, P22111B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		29854.3264		35417.2319		35852.5179		219.7802	213.3789	MG/KG	2531		2811		1			20	P
Antimony	121	0.2826		0.6608		0.5958		1.2680	1.3056	MG/KG	30	N	24	N	10		75 - 125	20	MS
Arsenic	75	8.3407		9.8035		7.7815		2.1133	2.1760	MG/KG	69	N	-26	N	23	*	75 - 125	20	MS
Barium	137	191.4286		187.9966		141.0945		10.5664	10.8802	MG/KG	-32		-463		29	*		20	MS
Beryllium	9	1.2251		2.0619		1.7069		0.8453	0.8704	MG/KG	99		55	N	19		75 - 125	20	MS
Boron		12.6978		216.4714		210.4897		219.7802	213.3789	MG/KG	93		93		3		84 - 115	20	P
Cadmium	111	0.3495		1.5626		1.2839		1.0566	1.0880	MG/KG	115		86		20		75 - 125	20	MS
Calcium		16392.4956		13300.7901		13975.8188		439.5604	426.7577	MG/KG	-703		-566		5			20	P
Chromium	52	52.6813		61.2849		47.0895		10.5664	10.8802	MG/KG	81		-51		26	*		20	MS
Cobalt	59	15.2308		77.8952		61.7125		52.8318	54.4010	MG/KG	119		85		23	*	75 - 125	20	MS
Copper	63	24.5055		34.0448		26.7871		10.5664	10.8802	MG/KG	90		21	N	24	*	75 - 125	20	MS
Iron		30733.0440		32206.8956		30279.5370		109.8901	106.6894	MG/KG	1341		-425		6			20	P
Lead	208	13.5868		16.5046		12.9540		3.1699	3.2641	MG/KG	92		-19		24	*		20	MS
Lithium		25.3890		134.0121		128.4914		109.8901	106.6894	MG/KG	99		97		4		82 - 114	20	P
Magnesium		6573.3769		6880.8736		6833.6253		219.7802	213.3789	MG/KG	140		122		1			20	P
Manganese		385.1527		450.8495		433.3202		54.9451	53.3447	MG/KG	120		90		4			20	P
Mercury		0.0076	U	0.1750		0.1665		0.1787	0.1747	MG/KG	98		95		5		65 - 135	20	CV
Molybdenum	98	0.7629		12.6775		10.4080		10.5664	10.8802	MG/KG	113		89		20		75 - 125	20	MS
Nickel	60	30.9231		40.9975		31.3568		10.5664	10.8802	MG/KG	95		4	N	27	*	75 - 125	20	MS
Phosphorus		375.8385		456.0275		464.5322		109.8901	106.6894	MG/KG	73	N	83		2		75 - 125	20	P
Potassium		5169.2165		6648.5945		6541.3229		1098.9011	1066.8943	MG/KG	135		129		2			20	P
Selenium	78	0.2787	B	2.2802		1.9600		2.1133	2.1760	MG/KG	95		77		15		75 - 125	20	MS
Silver	107	0.0528	B	13.1868		10.5299		10.5664	10.8802	MG/KG	124		96		22	*	75 - 125	20	MS
Sodium		82.5473	B	1141.3648		1087.4309		1098.9011	1066.8943	MG/KG	96		94		5		75 - 125	20	P
Strontium		38.0440		139.4187		136.7758		109.8901	106.6894	MG/KG	92		93		2		75 - 115	20	P
Thallium	203	0.5213		1.0351		0.7958		0.4227	0.4352	MG/KG	122		63	N	26	*	75 - 125	20	MS
Tin		2.3220	B	369.4077		346.3406		439.5604	426.7577	MG/KG	84		81		6		80 - 110	20	P
Titanium		1379.0659		1698.8363		1677.5920		109.8901	106.6894	MG/KG	291		280		1			20	P
Vanadium	51	99.8022		106.0862		80.5571		10.5664	10.8802	MG/KG	59		-177		27	*		20	MS
Zinc	66	102.4176		102.5993		84.0170		10.5664	10.8802	MG/KG	2		-169		20			20	MS
Zirconium		2.2802	B	101.8176		94.7253		109.8901	106.6894	MG/KG	91		87		7		75 - 125	20	P

#Sb: post spike %b, Ag = -177, Cu = -715, Ni = -957 J/R

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG
% Solids for Duplicate: 90.8
Batch ID(s): P22108C, P22126B, P22111B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6366494DUP
% Solids for Sample: 91.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M	
Aluminum			29854.3264		27876.8069		7		P	
Antimony	121	0.2	0.2826		0.1396	B	~~68~~		MS	<5X
Arsenic	75		8.3407		5.7341		37	*	MS	
Barium	137		191.4286		127.6484		40	*	MS	
Beryllium	9		1.2251		0.9009		30	*	MS	
Boron		5.5	12.6978		11.4966		10		P	
Cadmium	111	0.1	0.3495		0.2431		~~36~~		MS	<5X
Calcium			16392.4956		14089.1345		15		P	
Chromium	52		52.6813		35.0769		40	*	MS	
Cobalt	59		15.2308		10.1363		40	*	MS	
Copper	63		24.5055		16.9604		36	*	MS	
Iron			30733.0440		29557.5301		4		P	
Lead	208		13.5868		9.3407		37	*	MS	
Lithium			25.3890		23.2988		9		P	
Magnesium			6573.3769		6139.4390		7		P	
Manganese			385.1527		396.6845		3		P	
Mercury			0.0076	U	0.0076	U			CV	
Molybdenum	98	0.1	0.7629		0.4369		~~54~~	*	MS	By Difference
Nickel	60		30.9231		20.7099		40	*	MS	
Phosphorus			375.8385		360.4448		4		P	
Potassium			5169.2165		4880.6709		6		P	
Selenium	78		0.2787	B	0.2279	B	20		MS	
Silver	107		0.0528	B	0.0397	B	~~28~~		MS	<5X
Sodium			82.5473	B	76.0523	B	8		P	
Strontium			38.0440		33.5604		13		P	
Thallium	203	0.1	0.5213		0.3648		~~35~~	*	MS	<5X
Tin			2.3220	B	2.2302	B	4		P	
Titanium			1379.0659		1250.0963		10		P	
Vanadium	51		99.8022		68.1099		38	*	MS	
Zinc	66		102.4176		71.7802		35	*	MS	
Zirconium			2.2802	B	1.6777	B	~~30~~		P	<5X

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Difference
Mo: 0.3760 (≤0.220)

DE216 2842

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Serial Dilution Lab Sample ID: 6366491L
Batch ID(s): P22108C, P22126B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		271674.3700		271882.4500		0		P
Antimony	121	1.2860		1.8500	U	100		MS
Arsenic	75	37.9500		57.5000		52		MS
Barium	137	871.0000		1230.5000		41	E	MS
Beryllium	9	5.5740		9.1400		64		MS
Boron		115.5500		165.2000	B	43		P
Cadmium	111	1.5900		2.8445		79		MS
Calcium		149171.7100		156798.0500		5		P
Chromium	52	239.7000		345.5000		44	E	MS
Cobalt	59	69.3000		103.4000		49	E	MS
Copper	63	111.5000		167.1500		50	E	MS
Iron		55934.1400		56432.4500		1		P
Lead	208	61.8200		89.2000		44	E	MS
Lithium		231.0400		233.0500		1		P
Magnesium		59817.7300		62820.0500		5		P
Manganese		3504.8900		3806.4000		9		P
Molybdenum	98	3.4710		5.3550		54		MS
Nickel	60	140.7000		209.7500		49	E	MS
Phosphorus		3420.1300		3486.0000		2		P
Potassium		47039.8700		47777.4000		2		P
Selenium	78	1.2680	B	2.0185	B	59		MS
Silver	107	0.2401	B	0.3550	U	100		MS
Sodium		751.1800	B	297.5000	U	100		P
Strontium		346.2000		363.0000		5		P
Thallium	203	2.3720		3.3020		39		MS
Tin		21.1300	B	26.7000	B	26		P
Titanium		12549.5000		13161.0000		5		P
Vanadium	51	454.1000		651.0000		43	E	MS
Zinc	66	466.0000		728.0000		56	E	MS
Zirconium		20.7500	B	23.0000	U	100		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.

DE216 ZZ44

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE216

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-204-SA5DN-SB-9.0-10.0	6366497	N	3050B	6010B	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3050B	6020	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3060A	7199	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3550B	8082	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3550B	8270C	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3550B	8270C SIM	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	METHOD	300.0	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	METHOD	314.0	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	METHOD	7471A	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3050B	6010B	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3050B	6020	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3060A	7199	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3550B	8082	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3550B	8270C	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3550B	8270C SIM	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	METHOD	300.0	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	METHOD	314.0	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3050B	6010B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3550B	8082	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3550B	8270C	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3550B	8270C SIM	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3050B	6010B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3550B	8082	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3550B	8270C	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3550B	8270C SIM	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	METHOD	314.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	3050B	6010B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	METHOD	314.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	METHOD	7471A	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3050B	6010B	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3050B	6020	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3060A	7199	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3550B	8082	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3550B	8270C	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3550B	8270C SIM	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	METHOD	300.0	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	METHOD	314.0	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3550B	8082	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3550B	8270C	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3550B	8270C SIM	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	METHOD	314.0	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	METHOD	7471A	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3050B	6010B	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3050B	6020	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3060A	7199	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3550B	8082	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3550B	8270C	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3550B	8270C SIM	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	METHOD	300.0	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	METHOD	314.0	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	METHOD	7471A	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3050B	6010B	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3050B	6020	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3060A	7199	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3550B	8082	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3550B	8270C	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3550B	8270C SIM	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	METHOD	300.0	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	METHOD	314.0	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **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
FLUORIDE	2.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	7.1		0.93	MDL	1.2	PQL	mg/Kg	J	Q

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
FLUORIDE	10.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

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
FLUORIDE	2.6		0.87	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	5.5		0.92	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	3.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q

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
FLUORIDE	3.9		0.95	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **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
PHOSPHORUS	371		0.377	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	73.1	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.19	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.10	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z, E

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
PHOSPHORUS	343		0.394	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.53	J	0.360	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.39	J	0.518	MDL	5.63	PQL	mg/Kg	J	Z, E

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
PHOSPHORUS	246		0.396	MDL	11.3	PQL	mg/Kg	J	Q
SODIUM	92.5	J	6.73	MDL	113	PQL	mg/Kg	J	Z
TIN	2.44	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.521	MDL	5.66	PQL	mg/Kg	J	Z, E

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
PHOSPHORUS	376		0.385	MDL	11.0	PQL	mg/Kg	J	Q
SODIUM	82.5	J	6.54	MDL	110	PQL	mg/Kg	J	Z
TIN	2.32	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z, E

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
PHOSPHORUS	642		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.64	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.11	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	481		0.373	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	78.2	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.29	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z, E

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
PHOSPHORUS	345		0.405	MDL	11.6	PQL	mg/Kg	J	Q
SODIUM	103	J	6.89	MDL	116	PQL	mg/Kg	J	Z
TIN	2.66	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.36	J	0.533	MDL	5.79	PQL	mg/Kg	J	Z, E

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z, FD

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.420		0.0543	MDL	0.109	PQL	mg/Kg	J	FD

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.115	MDL	0.435	PQL	mg/Kg	J	E, E, A

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0885	J	0.0804	MDL	0.217	PQL	mg/Kg	J	Z, Q, Q, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.16		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	0.794		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	31.3		0.130	MDL	0.435	PQL	mg/Kg	J	E, E, A, FD
COBALT	9.73		0.0217	MDL	0.109	PQL	mg/Kg	J	E, E, A
COPPER	14.8		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E, E, A
LEAD	8.08		0.0111	MDL	0.217	PQL	mg/Kg	J	E, E, A, FD
NICKEL	19.0		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0361	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, E
THALLIUM	0.337		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	59.1		0.0239	MDL	0.109	PQL	mg/Kg	J	E, E, A, FD
ZINC	63.0		0.609	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	182		0.117	MDL	0.442	PQL	mg/Kg	J	E, E, A

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.184	J	0.0817	MDL	0.221	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.78		0.0883	MDL	0.442	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.15		0.0177	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	48.0		0.132	MDL	0.442	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0221	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	20.4		0.0883	MDL	0.442	PQL	mg/Kg	J	Q, E, E, A
LEAD	12.5		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	29.6		0.110	MDL	0.442	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0517	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.405		0.0331	MDL	0.110	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	87.2		0.0243	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	88.2		0.618	MDL	3.31	PQL	mg/Kg	J	E, A

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.6		0.116	MDL	0.440	PQL	mg/Kg	J	E, E, A

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0874	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.85		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	0.801		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	28.3		0.132	MDL	0.440	PQL	mg/Kg	J	E, E, A
COBALT	7.19		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	12.2		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
LEAD	6.81		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	16.5		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0472	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.297		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	52.1		0.0242	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	54.9		0.615	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.279	J	0.0637	MDL	0.440	PQL	mg/Kg	J	Z, FD

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.763		0.0549	MDL	0.110	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	191		0.116	MDL	0.440	PQL	mg/Kg	J	E, E, A

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.283		0.0813	MDL	0.220	PQL	mg/Kg	J	Q, Q, FD
ARSENIC	8.34		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.23		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	52.7		0.132	MDL	0.440	PQL	mg/Kg	J	E, E, A, FD
COBALT	15.2		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	24.5		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
LEAD	13.6		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A, FD
NICKEL	30.9		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0528	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.521		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	99.8		0.0242	MDL	0.110	PQL	mg/Kg	J	E, E, A, FD
ZINC	102		0.615	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *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	0.0669	MDL	0.461	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	173		0.122	MDL	0.461	PQL	mg/Kg	J	E, E, A

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.238		0.0854	MDL	0.231	PQL	mg/Kg	J	Q, Q
ARSENIC	8.87		0.0923	MDL	0.461	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.27		0.0185	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	51.4		0.138	MDL	0.461	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	11.9		0.0231	MDL	0.115	PQL	mg/Kg	J	E, E, A
COPPER	23.5		0.0923	MDL	0.461	PQL	mg/Kg	J	Q, E, E, A
LEAD	13.1		0.0118	MDL	0.231	PQL	mg/Kg	J	E, E, A
NICKEL	29.1		0.115	MDL	0.461	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0543	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, E
THALLIUM	0.447		0.0346	MDL	0.115	PQL	mg/Kg	J	Q, E
VANADIUM	96.7		0.0254	MDL	0.115	PQL	mg/Kg	J	E, E, A
ZINC	99.5		0.646	MDL	3.46	PQL	mg/Kg	J	E, A

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.116	MDL	0.439	PQL	mg/Kg	J	E, E, A

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.225		0.0812	MDL	0.220	PQL	mg/Kg	J	Q, Q
ARSENIC	7.52		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.14		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	46.9		0.132	MDL	0.439	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	22.5		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E, E, A
LEAD	14.3		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	27.7		0.110	MDL	0.439	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0757	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.438		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	88.9		0.0241	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	93.8		0.615	MDL	3.29	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0672	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	177		0.123	MDL	0.463	PQL	mg/Kg	J	E, E, A

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0857	MDL	0.232	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.12		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.14		0.0185	MDL	0.116	PQL	mg/Kg	J	Q, E
CHROMIUM	47.0		0.139	MDL	0.463	PQL	mg/Kg	J	E, E, A
COBALT	13.2		0.0232	MDL	0.116	PQL	mg/Kg	J	E, E, A
COPPER	20.5		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, E, E, A
LEAD	12.2		0.0118	MDL	0.232	PQL	mg/Kg	J	E, E, A
NICKEL	28.3		0.116	MDL	0.463	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0506	J	0.0164	MDL	0.116	PQL	mg/Kg	J	Z, E
THALLIUM	0.447		0.0347	MDL	0.116	PQL	mg/Kg	J	Q, E
VANADIUM	87.6		0.0255	MDL	0.116	PQL	mg/Kg	J	E, E, A
ZINC	92.7		0.648	MDL	3.47	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **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
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

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
HEXAVALENT CHROMIUM	0.54	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.22	MDL	1.1	PQL	mg/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
HEXAVALENT CHROMIUM	0.54	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

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
MERCURY	0.0089	J	0.0080	MDL	0.114	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *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	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.50	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
1,3-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2,4,5-TRICHLOROPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,4,6-TRICHLOROPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,4-DICHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2,4-DIMETHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	S
2,4-DINITROTOLUENE	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,6-DINITROTOLUENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-CHLORONAPHTHALENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-CHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-METHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2-NITROANILINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3-NITROANILINE	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
4-CHLORO-3-METHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4-CHLOROANILINE	74	U	74	MDL	180	PQL	ug/Kg	UJ	S
4-CHLOROPHENYL-PHENYLETHER	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4-METHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4-NITROANILINE	74	U	74	MDL	180	PQL	ug/Kg	UJ	S
4-NITROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
ANILINE	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	S
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
BENZYL ALCOHOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
BIS(2-CHLOROETHYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
DIBENZOFURAN	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
HEXACHLOROBUTADIENE	74	U	74	MDL	180	PQL	ug/Kg	UJ	S
HEXACHLOROCYCLOPENTADIENE	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
HEXACHLOROETHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
ISOPHORONE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
NITROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
N-NITROSO-DI-N-PROPYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
PHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z, FD
CHRYSENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	12	J	6.7	MDL	20	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.53	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.85	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.97	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.83	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.5	J	6.9	MDL	21	PQL	ug/Kg	J	Z, L
CHRYSENE	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.77	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.81	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	0.97	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
CHRYSENE	0.91	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
FLUORANTHENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.59	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.3	J	6.9	MDL	21	PQL	ug/Kg	J	Z, L
CHRYSENE	0.48	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	0.83	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	8.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z, L
CHRYSENE	0.43	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	Professional Judgment
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE216

Method Blank Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22108CB220608	8/12/2011 6:08:00 AM	ALUMINUM	9.51 mg/Kg	DUP23-SA5DN-QC-080411
		BORON	0.347 mg/Kg	SL-185-SA5DN-SB-4.0-5.0
		CALCIUM	7.59 mg/Kg	SL-185-SA5DN-SB-9.0-10.0
		IRON	4.32 mg/Kg	SL-189-SA5DN-SB-4.0-5.0
		MAGNESIUM	1.37 mg/Kg	SL-189-SA5DN-SB-9.0-10.0
		PHOSPHORUS	0.863 mg/Kg	SL-204-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0365 mg/Kg	SL-204-SA5DN-SB-9.0-10.0
		TIN	1.58 mg/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP23-SA5DN-QC-080411(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	TIN	2.32 mg/Kg	2.32U mg/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22126BB221123A	8/11/2011 11:23:00 AM	COPPER	0.206 mg/Kg	DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0

Method: **8270C SIM**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260855	8/18/2011 8:55:00 AM	Diethylphthalate	7.9 ug/Kg	DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_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-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ANTIMONY ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	30 69 - - - - 59 2	24 -26 -51 21 -19 4 -177 -169	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	- 23 (20.00) 26 (20.00) 24 (20.00) 24 (20.00) 27 (20.00) 27 (20.00) -	ANTIMONY ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J (all detects) R (all non-detects) Cr, Pb, V, Zn No Qual, % R >4x Sb Post Spike = 72% As Post Spike = -177% Cu Post Spike = -710% Ni Post Spike= -955%
SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	BERYLLIUM COBALT SILVER THALLIUM	- - - -	55 - - 63	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 23 (20.00) 22 (20.00) 26 (20.00)	BERYLLIUM COBALT SILVER THALLIUM	J(all detects) UJ(all non-detects)
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	BARIUM	-32	-463	75.00-125.00	29 (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-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	2531 140 135 291	2811 - 129 280	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	No Qual, >4x
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	CALCIUM IRON	-703 1341	-566 -425	75.00-125.00 75.00-125.00	- -	CALCIUM IRON	No Qual, >4x

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_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-189-SA5DN-SB-4.0-5.0 MS (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	PHOSPHORUS	73	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	FLUORIDE	60	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MSD (SL-189-SA5DN-SB-4.0-5.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-	586	39.00-167.00	128 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (SL-189-SA5DN-SB-4.0-5.0)	BENZIDINE	24	25	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5DN-SB-4.0-5.0 DUP (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	Zirconium	30	20.00	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5DN-SB-4.0-5.0 DUP (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ANTIMONY	68	20.00	
	ARSENIC	37	20.00	J(all detects) UJ(all non-detects)
	BARIUM	40	20.00	
	BERYLLIUM	30	20.00	
	CADMIUM	36	20.00	
	CHROMIUM	40	20.00	Sb, Cd, Ag, Tl No Qual, OK by Difference
	COBALT	40	20.00	
	COPPER	36	20.00	
	LEAD	37	20.00	
	MOLYBDENUM	0.3260 mg/kg	0.220 mg/kg	
	NICKEL	40	20.00	
	SILVER	28	20.00	
	THALLIUM	35	20.00	
	VANADIUM	38	20.00	
	ZINC	35	20.00	

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5DN-SB-4.0-5.0 DUP (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	28	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_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
P22126BQ221126A (DUP23 -SA5DN -QC-080411 SL -185-SA5DN -SB-4.0-5.0 SL -185-SA5DN -SB-9.0-10.0 SL -189-SA5DN -SB-4.0-5.0 SL -189-SA5DN -SB-9.0-10.0 SL -204-SA5DN -SB-4.0-5.0 SL -204-SA5DN -SB-9.0-10.0)	ANTIMONY	72	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22108CQ220612 (DUP23 -SA5DN -QC-080411 SL -185-SA5DN -SB-4.0-5.0 SL -185-SA5DN -SB-9.0-10.0 SL -189-SA5DN -SB-4.0-5.0 SL -189-SA5DN -SB-9.0-10.0 SL -204-SA5DN -SB-4.0-5.0 SL -204-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	132 157	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LDLCSQ260928 (DUP23 -SA5DN -QC-080411 SL -185-SA5DN -SB-4.0-5.0 SL -185-SA5DN -SB-9.0-10.0 SL -189-SA5DN -SB-4.0-5.0 SL -189-SA5DN -SB-9.0-10.0 SL -204-SA5DN -SB-4.0-5.0 SL -204-SA5DN -SB-9.0-10.0)	Butylbenzylphthalate	132	-	65.00-131.00	-	Butylbenzylphthalate	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP23-SA5DN-QC -080411	2,4,6-TRIBROMOPHENOL	19	35.00-130.00	All Target Analytes	
	2-FLUOROBIPHENYL	23	45.00-130.00		
	2-FLUOROPHENOL	23	25.00-130.00		J (all detects)
	Nitrobenzene-d5	21	40.00-130.00		UJ (all non-detects)
	PHENOL-D6	24	25.00-120.00		
	Terphenyl-d14	23	45.00-135.00		

Field Duplicate RPD Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%) SL-189-SA5DN-SB-4.0-5.0	Concentration (%) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
MOISTURE	9.0	9.8	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg) SL-189-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
FLUORIDE	2.6	2.4	8	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg) SL-189-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
ALUMINUM	29900	29800	0	50.00	No Qualifiers Applied
BORON	12.7	12.6	1	50.00	
CALCIUM	16400	15300	7	50.00	
IRON	30700	30800	0	50.00	
LITHIUM	25.4	25.4	0	50.00	
MAGNESIUM	6570	6540	0	50.00	
MANGANESE	385	384	0	50.00	
PHOSPHORUS	376	371	1	50.00	
POTASSIUM	5170	4960	4	50.00	
SODIUM	82.5	73.1	12	50.00	
STRONTIUM	38.0	37.0	3	50.00	
TIN	2.32	2.19	6	50.00	
TITANIUM	1380	1250	10	50.00	
Zirconium	2.28	2.10	8	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-189-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
ARSENIC	8.34	5.16	47	50.00	No Qualifiers Applied
BARIUM	191	118	47	50.00	
BERYLLIUM	1.23	0.794	43	50.00	
CADMIUM	0.349	0.214	48	50.00	
COBALT	15.2	9.73	44	50.00	
COPPER	24.5	14.8	49	50.00	
NICKEL	30.9	19.0	48	50.00	
SILVER	0.0528	0.0361	38	50.00	
THALLIUM	0.521	0.337	43	50.00	
ZINC	102	63.0	47	50.00	
ANTIMONY	0.283	0.0885	105	50.00	J(all detects)
CHROMIUM	52.7	31.3	51	50.00	
LEAD	13.6	8.08	51	50.00	
MOLYBDENUM	0.763	0.420	58	50.00	
SELENIUM	0.279	0.148	61	50.00	
VANADIUM	99.8	59.1	51	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
HEXAVALENT CHROMIUM	0.54	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
AROCLOR 1254	1.2	1.9 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
ANTHRACENE	1.0	1.8 U	200	50.00	
BENZO(A)ANTHRACENE	1.1	1.8 U	200	50.00	
BENZO(A)PYRENE	0.92	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	1.2	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	0.97	1.8 U	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	20 U	11	200	50.00	J(all detects) UJ(all non-detects)
CHRYSENE	0.91	1.8 U	200	50.00	
Di-n-butylphthalate	20 U	12	200	50.00	
FLUORANTHENE	1.1	1.8 U	200	50.00	
PHENANTHRENE	1.1	1.8 U	200	50.00	
PYRENE	1.1	1.8 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
PH	8.02	8.19	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	SODIUM	J	73.1	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.8	PQL	mg/Kg	
	Zirconium	J	2.10	5.38	PQL	mg/Kg	
SL-185-SA5DN-SB-4.0-5.0	TIN	J	2.53	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.39	5.63	PQL	mg/Kg	
SL-185-SA5DN-SB-9.0-10.0	SODIUM	J	92.5	113	PQL	mg/Kg	J (all detects)
	TIN	J	2.44	11.3	PQL	mg/Kg	
	Zirconium	J	1.62	5.66	PQL	mg/Kg	
SL-189-SA5DN-SB-4.0-5.0	SODIUM	J	82.5	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.32	11.0	PQL	mg/Kg	
	Zirconium	J	2.28	5.49	PQL	mg/Kg	
SL-189-SA5DN-SB-9.0-10.0	TIN	J	2.64	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.11	5.49	PQL	mg/Kg	
SL-204-SA5DN-SB-4.0-5.0	SODIUM	J	78.2	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.7	PQL	mg/Kg	
	Zirconium	J	2.27	5.33	PQL	mg/Kg	
SL-204-SA5DN-SB-9.0-10.0	SODIUM	J	103	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.66	11.6	PQL	mg/Kg	
	Zirconium	J	4.36	5.79	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	ANTIMONY	J	0.0885	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.435	PQL	mg/Kg	
	SILVER	J	0.0361	0.109	PQL	mg/Kg	
SL-185-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.184	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.104	0.442	PQL	mg/Kg	
	SILVER	J	0.0517	0.110	PQL	mg/Kg	
SL-185-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0874	0.220	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0472	0.110	PQL	mg/Kg	
SL-189-SA5DN-SB-4.0-5.0	SELENIUM	J	0.279	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.110	PQL	mg/Kg	
SL-189-SA5DN-SB-9.0-10.0	SELENIUM	J	0.206	0.461	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0543	0.115	PQL	mg/Kg	
SL-204-SA5DN-SB-4.0-5.0	SELENIUM	J	0.257	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0757	0.110	PQL	mg/Kg	
SL-204-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.159	0.232	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.137	0.463	PQL	mg/Kg	
	SILVER	J	0.0506	0.116	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.54	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-9.0-10.0	MERCURY	J	0.0089	0.114	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.3	1.9	PQL	ug/Kg	J (all detects)
SL-189-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-189-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.55	2.0	PQL	ug/Kg	J (all detects)
SL-204-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	0.50	1.9	PQL	ug/Kg	J (all detects)
SL-204-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.65	2.0	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	J J	11 12	20 20	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-9.0-10.0	ACENAPHTHYLENE	J	0.53	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.85	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	0.97	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.95	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.5	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.0	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.77	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORENE	J	1.3	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.81	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-189-SA5DN-SB-4.0-5.0	ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.92	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.91	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
	PYRENE	J	1.1	1.8	PQL	ug/Kg	
SL-189-SA5DN-SB-9.0-10.0	ANTHRACENE	J	0.59	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.3	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.48	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	
	PHENANTHRENE	J	0.83	1.9	PQL	ug/Kg	
SL-204-SA5DN-SB-4.0-5.0	Butylbenzylphthalate	J	8.2	20	PQL	ug/Kg	
	CHRYSENE	J	0.43	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
SL-204-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	

LDC #: 26533E4

SDG #: DE216

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

ADR

Date: 11/7/11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by ICB/ICV
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Co, Cr, Fe, Pb, Mg, K, Ti, V, Zn > 4X (No qual for %R)
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Ag, Tl < 5X, Mo difference 0.326 (V RPD out J/UJ)
VIII.	Laboratory Control Samples (LCS)	NA	SRM (LCS)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V, Zn J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	~~N~~	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-185-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-185-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-189-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-189-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-204-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-204-SA5DN-SB-9.0-10.0	16		26		36	
7	DUP23-SA5DN-QC-080411	17		27		37	
8	SL-189-SA5DN-SB-4.0-5.0MS	18		28		38	
9	SL-189-SA5DN-SB-4.0-5.0MSD	19		29		39	
10	SL-189-SA5DN-SB-4.0-5.0DUP	20		30		40	

Notes:

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Matrix Spike Lab Sample ID: 6366492MS Matrix Spike Duplicate Lab Sample ID: 6366493MSD
% Solids for Sample: 91.0
Batch Id(s): P22108C, P22126B, P22111B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		29854.3264		35417.2319		35852.5179		219.7802	213.3789	MG/KG	2531		2811		1			20	P
Antimony	121	0.2826		0.6608		0.5958		1.2680	1.3056	MG/KG	30	N	24	N	10		75 - 125	20	MS
Arsenic	75	8.3407		9.8035		7.7815		2.1133	2.1760	MG/KG	69	N	-26	N	23	*	75 - 125	20	MS
Barium	137	191.4286		187.9966		141.0945		10.5664	10.8802	MG/KG	-32		-463		29	*		20	MS
Beryllium	9	1.2251		2.0619		1.7069		0.8453	0.8704	MG/KG	99		55	N	19		75 - 125	20	MS
Boron		12.6978		216.4714		210.4897		219.7802	213.3789	MG/KG	93		93		3		84 - 115	20	P
Cadmium	111	0.3495		1.5626		1.2839		1.0566	1.0880	MG/KG	115		86		20		75 - 125	20	MS
Calcium		16392.4956		13300.7901		13975.8188		439.5604	426.7577	MG/KG	-703		-566		5			20	P
Chromium	52	52.6813		61.2849		47.0895		10.5664	10.8802	MG/KG	81		-51		26	*		20	MS
Cobalt	59	15.2308		77.8952		61.7125		52.8318	54.4010	MG/KG	119		85		23	*	75 - 125	20	MS
Copper	63	24.5055		34.0448		26.7871		10.5664	10.8802	MG/KG	90		21	N	24	*	75 - 125	20	MS
Iron		30733.0440		32206.8956		30279.5370		109.8901	106.6894	MG/KG	1341		-425		6			20	P
Lead	208	13.5868		16.5046		12.9540		3.1699	3.2641	MG/KG	92		-19		24	*		20	MS
Lithium		25.3890		134.0121		128.4914		109.8901	106.6894	MG/KG	99		97		4		82 - 114	20	P
Magnesium		6573.3769		6880.8736		6833.6253		219.7802	213.3789	MG/KG	140		122		1			20	P
Manganese		385.1527		450.8495		433.3202		54.9451	53.3447	MG/KG	120		90		4			20	P
Mercury		0.0076	U	0.1750		0.1665		0.1787	0.1747	MG/KG	98		95		5		65 - 135	20	CV
Molybdenum	98	0.7629		12.6775		10.4080		10.5664	10.8802	MG/KG	113		89		20		75 - 125	20	MS
Nickel	60	30.9231		40.9975		31.3568		10.5664	10.8802	MG/KG	95		4	N	27	*	75 - 125	20	MS
Phosphorus		375.8385		456.0275		464.5322		109.8901	106.6894	MG/KG	73	N	83		2		75 - 125	20	P
Potassium		5169.2165		6648.5945		6541.3229		1098.9011	1066.8943	MG/KG	135		129		2			20	P
Selenium	78	0.2787	B	2.2802		1.9600		2.1133	2.1760	MG/KG	95		77		15		75 - 125	20	MS
Silver	107	0.0528	B	13.1868		10.5299		10.5664	10.8802	MG/KG	124		96		22	*	75 - 125	20	MS
Sodium		82.5473	B	1141.3648		1087.4309		1098.9011	1066.8943	MG/KG	96		94		5		75 - 125	20	P
Strontium		38.0440		139.4187		136.7758		109.8901	106.6894	MG/KG	92		93		2		75 - 115	20	P
Thallium	203	0.5213		1.0351		0.7958		0.4227	0.4352	MG/KG	122		63	N	26	*	75 - 125	20	MS
Tin		2.3220	B	369.4077		346.3406		439.5604	426.7577	MG/KG	84		81		6		80 - 110	20	P
Titanium		1379.0659		1698.8363		1677.5920		109.8901	106.6894	MG/KG	291		280		1			20	P
Vanadium	51	99.8022		106.0862		80.5571		10.5664	10.8802	MG/KG	59		-177		27	*		20	MS
Zinc	66	102.4176		102.5993		84.0170		10.5664	10.8802	MG/KG	2		-169		20			20	MS
Zirconium		2.2802	B	101.8176		94.7253		109.8901	106.6894	MG/KG	91		87		7		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Sb** = post spike %R J/R Cu** = post spike %R
Ag** ↓ 111 ↓ Ni** ↓ 155

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6366491BKG
% Solids for Duplicate: 90.8
Batch ID(s): P22108C, P22126B, P22111B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6366494DUP
% Solids for Sample: 91.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			29854.3264		27876.8069		7		P
Antimony	121	0.2	0.2826		0.1396	B	68		MS
Arsenic	75		8.3407		5.7341		37	*	MS
Barium	137		191.4286		127.6484		40	*	MS
Beryllium	9		1.2251		0.9009		30	*	MS
Boron		5.5	12.6978		11.4966		10		P
Cadmium	111	0.1	0.3495		0.2431		36		MS
Calcium			16392.4956		14089.1345		15		P
Chromium	52		52.6813		35.0769		40	*	MS
Cobalt	59		15.2308		10.1363		40	*	MS
Copper	63		24.5055		16.9604		36	*	MS
Iron			30733.0440		29557.5301		4		P
Lead	208		13.5868		9.3407		37	*	MS
Lithium			25.3890		23.2988		9		P
Magnesium			6573.3769		6139.4390		7		P
Manganese			385.1527		396.6845		3		P
Mercury			0.0076	U	0.0076	U			CV
Molybdenum	98	0.1	0.7629		0.4369		54	*	MS
Nickel	60		30.9231		20.7099		40	*	MS
Phosphorus			375.8385		360.4448		4		P
Potassium			5169.2165		4880.6709		6		P
Selenium	78		0.2787	B	0.2279	B	20		MS
Silver	107		0.0528	B	0.0397	B	28		MS
Sodium			82.5473	B	76.0523	B	8		P
Strontium			38.0440		33.5604		13		P
Thallium	203	0.1	0.5213		0.3648		35	*	MS
Tin			2.3220	B	2.2302	B	4		P
Titanium			1379.0659		1250.0963		10		P
Vanadium	51		99.8022		68.1099		38	*	MS
Zinc	66		102.4176		71.7802		35	*	MS
Zirconium			2.2802	B	1.6777	B	30		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 = 0.360 (≤ 0.220)

DE216 2042

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Serial Dilution Lab Sample ID: 6366491L
Batch ID(s): P22108C, P22126B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		271674.3700		271882.4500		0		P
Antimony	121	1.2860		1.8500	U	100		MS
Arsenic	75	37.9500		57.5000		52		MS
Barium	137	871.0000		1230.5000		41	E	MS
Beryllium	9	5.5740		9.1400		64		MS
Boron		115.5500		165.2000	B	43		P
Cadmium	111	1.5900		2.8445		79		MS
Calcium		149171.7100		156798.0500		5		P
Chromium	52	239.7000		345.5000		44	E	MS
Cobalt	59	69.3000		103.4000		49	E	MS
Copper	63	111.5000		167.1500		50	E	MS
Iron		55934.1400		56432.4500		1		P
Lead	208	61.8200		89.2000		44	E	MS
Lithium		231.0400		233.0500		1		P
Magnesium		59817.7300		62820.0500		5		P
Manganese		3504.8900		3806.4000		9		P
Molybdenum	98	3.4710		5.3550		54		MS
Nickel	60	140.7000		209.7500		49	E	MS
Phosphorus		3420.1300		3486.0000		2		P
Potassium		47039.8700		47777.4000		2		P
Selenium	78	1.2680	B	2.0185	B	59		MS
Silver	107	0.2401	B	0.3550	U	100		MS
Sodium		751.1800	B	297.5000	U	100		P
Strontium		346.2000		363.0000		5		P
Thallium	203	2.3720		3.3020		39		MS
Tin		21.1300	B	26.7000	B	26		P
Titanium		12549.5000		13161.0000		5		P
Vanadium	51	454.1000		651.0000		43	E	MS
Zinc	66	466.0000		728.0000		56	E	MS
Zirconium		20.7500	B	23.0000	U	100		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.

DE216 ~~ZZ44~~

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE218

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6010B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6020	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3060A	7199	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8082	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C SIM	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	6850	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	7471A	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D270449A	DUP	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D271150A	DUP	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R270530A	MS	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R271213A	MS	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	9012B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R240013A	MS	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R242118A	MS	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R261721	MS	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	300.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	9012B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6010B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6020	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3060A	7199	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8082	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C SIM	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	300.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	314.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	7471A	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6010B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6020	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3060A	7199	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8082	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C SIM	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	300.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	314.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	300.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	7471A	III
05-Aug-2011	TB-080511	6367764	TB	5030B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M320134A	MSD	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M321917A	MSD	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R320119A	MS	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R321904A	MS	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-022-SA6-SB-0.0-1.0** ***Collected:*** **8/5/2011 10:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-023-SA6-SB-0.0-1.0** ***Collected:*** **8/5/2011 10:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-060-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 11:32:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-010-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.54	J	0.404	MDL	5.61	PQL	mg/Kg	J	Z
CALCIUM	1430		2.81	MDL	22.4	PQL	mg/Kg	J	E, E
PHOSPHORUS	147		0.393	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	109	J	6.68	MDL	112	PQL	mg/Kg	J	Z
TIN	3.37	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.97	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
CALCIUM	2280		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	480		0.354	MDL	10.1	PQL	mg/Kg	J	Q
TIN	3.37	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.38	J	0.369	MDL	5.12	PQL	mg/Kg	J	Z
CALCIUM	3270		2.56	MDL	20.5	PQL	mg/Kg	J	E, E
PHOSPHORUS	358		0.359	MDL	10.2	PQL	mg/Kg	J	Q
SODIUM	88.2	J	6.10	MDL	102	PQL	mg/Kg	J	Z
TIN	2.95	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-060-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 11:32:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	23900		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	330		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	94.5	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.78	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	92900		14.2	MDL	113	PQL	mg/Kg	J	E, E

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	513		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.90	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.64	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
CALCIUM	2710		2.67	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	289		0.373	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.96	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1410		2.73	MDL	21.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	221		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.28	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6010B **Matrix: SO**

Sample ID: SL-198-SA5DN-SB-4.0-5.0 **Collected: 8/5/2011 8:49:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6330		2.85	MDL	22.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	346		0.399	MDL	11.4	PQL	mg/Kg	J	Q
TIN	3.38	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-198-SA5DN-SB-9.0-10.0 **Collected: 8/5/2011 9:13:00 AM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	54600		2.70	MDL	21.6	PQL	mg/Kg	J	E, E
PHOSPHORUS	454		0.378	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.04	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

Method Category: METALS
Method: 6020 **Matrix: SO**

Sample ID: SL-010-SA6-SB-4.0-5.0 **Collected: 8/5/2011 8:05:00 AM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0695	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z, Q

Sample ID: SL-010-SA6-SB-4.0-5.0 **Collected: 8/5/2011 8:05:00 AM** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.873		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA6-SB-4.0-5.0 **Collected: 8/5/2011 8:05:00 AM** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.119	MDL	0.449	PQL	mg/Kg	J	E

Sample ID: SL-010-SA6-SB-4.0-5.0 **Collected: 8/5/2011 8:05:00 AM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0831	U	0.0831	MDL	0.224	PQL	mg/Kg	UJ	Q
ARSENIC	4.77		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.933		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA6-SB-4.0-5.0 ***Collected:*** 8/5/2011 8:05:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0497	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.0		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	6.67		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
LEAD	6.13		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	11.9		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0255	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.216		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	36.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	63.1		0.629	MDL	3.37	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.0		0.111	MDL	0.420	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	UJ	Q
ARSENIC	4.69		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.399		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.0504	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	7.17		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	4.59		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
LEAD	5.36		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	5.75		0.105	MDL	0.420	PQL	mg/Kg	J	Q
THALLIUM	0.371		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	25.8		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	65.7		0.588	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.443		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.110	MDL	0.414	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.15		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.422		0.0166	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.0848	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	5.61		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	4.64		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	8.34		0.103	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.282		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	30.1		0.0228	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	73.5		0.579	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 ***Collected:*** 8/5/2011 11:32:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0789	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.231		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.109	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0923	J	0.0764	MDL	0.206	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.96		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.322		0.0454	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	32.2		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	8.81		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	9.47		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	21.2		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0514	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	58.2		0.0227	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	67.4		0.578	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0825	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z, Q

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.233		0.0567	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-060-SA5DN-SB-7.0-8.0 **Collected: 8/5/2011 1:05:00 PM** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.120	MDL	0.454	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 **Collected: 8/5/2011 1:05:00 PM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0840	MDL	0.227	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.89		0.0908	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.830		0.0182	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.381		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.136	MDL	0.454	PQL	mg/Kg	J	Q
COBALT	10.8		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, E
LEAD	10.2		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	20.9		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0490	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.296		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	62.3		0.0250	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	64.5		0.635	MDL	3.40	PQL	mg/Kg	J	E

Sample ID: SL-114-SA6-SB-4.0-5.0 **Collected: 8/5/2011 3:05:00 PM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0733	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-114-SA6-SB-4.0-5.0 **Collected: 8/5/2011 3:05:00 PM** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA6-SB-4.0-5.0 **Collected: 8/5/2011 3:05:00 PM** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.0		0.108	MDL	0.406	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0751	U	0.0751	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	4.35		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.668		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0779	J	0.0447	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	17.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	6.21		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
LEAD	5.11		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	11.3		0.102	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0259	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.295		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.8		0.0223	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	60.7		0.569	MDL	3.05	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0645	MDL	0.445	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.118	MDL	0.445	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0966	J	0.0823	MDL	0.222	PQL	mg/Kg	UJ	B, Q
ARSENIC	9.46		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.33		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.0790	J	0.0489	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	30.4		0.133	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	9.62		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	25.7		0.111	MDL	0.445	PQL	mg/Kg	J	Q
SILVER	0.122		0.0158	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.456		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	60.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	83.1		0.623	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.251	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	197		0.117	MDL	0.443	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0819	MDL	0.221	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.72		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.17		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.474		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	42.6		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	17.1		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	15.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	33.6		0.111	MDL	0.443	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling