Appendix C
Data Usability Assessment Report
(On CD)

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The purposes of this data usability and assessment report (DUAR) are to 1) summarize the data validation performed on the data sets for the sediment samples collected, and 2) determine whether the sample results meet the DQOs outlined in the *Draft Work Plan/Field Sampling and Analysis Plan Co-Located Chemical Sampling at Area IV Santa Susan Field Laboratory, Ventura County, California* (CDM 2010). Sediment samples were collected form drainages within Area IV and in the Northern Buffer Zone (NBZ). A sample of the sediment in the bottom of the Building 4056 excavation was also collected.

C.1 Usability Summary

For this data usability assessment, 23 data sets were reviewed. A data set consists of 20 or fewer samples grouped together for analyses depending on the time and date of when the samples were received by the laboratory. A data set is called a sample delivery group or SDG. The analyses performed are discussed in Section 2.5 of the Sediment Technical Memorandum (TM).

Samples were collected and analyzed in accordance with the work plan/field sampling and analysis plan (SAP) (CDM 2010). Deviations from what was prescribed were encountered during the field investigations and were discussed in Section 2.6 of the TM.

The data generated for drainage sediment samples are usable as reported with the data validation qualifiers added, with the exception of 117 individual analyte results (1.73 percent of all analytes) that were rejected (2 individual metal results, 79 individual pesticide results and 36 individual herbicide results). Specific details are provided in the validation reports in this Appendix and below in Section C.8.

C.2 Quality Assurance Objectives

Quality assurance (QA) objectives for measurement data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The QA objectives provide a mechanism for ongoing QC and evaluating and measuring data quality throughout the project.

A review of the collected data is necessary to determine if data measurement objectives established in the work plan/SAP (CDM 2010) have been met. The following data measurement objectives were considered:

- Specification and adherence to analytical method and reporting detection limit requirements
- Identification of the appropriate laboratory analytical QC requirements and verification of whether these QC requirements were met

- Verification that measurement performance criteria (representativeness and completeness) for the data have been met

- Verification that field procedures were followed, deviations were documented, and determination of impact on data quality from these deviations

The data validation review of the QA objectives determines if the collected data are of sufficient quality (except for the rejected results) to support their intended use.

C.3 Summary of Field and Laboratory QA Activities

CDM completed sampling activities in accordance with the approved work plan/SAP (CDM 2010). A total of 40 sediment drainage samples were collected and analyzed. Table 2-1 in the Sediment Technical Memorandum provides a summary of the samples collected and the laboratory analyses requested.

Table C-1 in this report presents the SDGs and validation level for the drainage sediment sample data. An index of samples associated with each SDG is presented at the beginning of the data validation reports presented in this Appendix . The work plan/SAP (CDM 2010) defined the procedures to be followed and the data quality requirements for the field sampling events.

C.4 Field Quality QA/QC

Field QC samples, such as MS/MSDs and field duplicates, were to be collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. Two MS/MSD samples were analyzed by LLI. Two field duplicate samples were collected. MS/MSD and field duplicate samples met the frequency requirements detailed in the work plan/SAP (CDM 2010). A third duplicate and MS/MSD sample was collected for methyl mercury and organotins analyses only.

As discussed in Section 2.3.2, one equipment rinsate blank sample was collected. The equipment rinsate blank results are presented on Table C-2. One field blank sample was collected for organotins and methyl mercury analyses only. The results for this sample are nondetect and are presented on Table C-3.

Temperature blanks were included with each shipment of samples.

The number of field quality control samples collected satisfies the minimum requirements for the drainage sediment sampling event except for the equipment blanks. Only one equipment rinsate blank associated with the sediment samples was collected. Two equipment rinsate blanks should have been collected per the number of sediment samples collected.

Most of the samples collected from the NBZ were in locations accessible only by foot, thus the sampling team was in the field all day. It was not feasible or safe to carry a cooler with ice to and from these locations, so a field decision was made that all sediment samples would be placed on ice at the end of the work day. This was done

so that all of the sediment samples were handled in the same manner, and some would not be refrigerated for a longer time than others prior to being shipped to the laboratory.

Field QA/QC objectives were accomplished through the use of appropriate sampling techniques and collection of the required QC samples at the required frequencies.

C.5 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, laboratory control samples (LCSs), MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. The majority of the laboratory QC sample criteria met project requirements as indicated in the data validation reports in Appendix C with the appropriate qualifiers applied. One hundred and seventeen individual analyte results (1.73 percent of the all analytes) were rejected and are discussed in detail in Section C.7 and C.8 and in the validation reports presented in this Appendix.

C.6 Data Validation Procedures

Data were validated by an independent data validation firm. All data validation was conducted in accordance with *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 2004), *EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA 2008), and *EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review* (EPA 2005).

The data validation strategy employed was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent according to EPA Level III (all QC parameters except calibrations and raw data) protocols.

Table C-1 shows all the SDGs for the drainage sediment samples and which SDGs were validated as Level III or Level IV. Some SDGs contain samples from other subareas[1] but all samples in an SDG were validated together.

In order to evaluate the quality of the laboratory and the validation firm, CDM chemists reviewed 10 percent of the drainage sediment sample SDGs. The purpose of the review was to identify any quality control issues with the laboratory not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM's review.

[1] During the course of sampling for drainage sediment samples, EPA transitioned sampling into subarea 5B. Therefore some sample delivery groups contain sample results for both 5C and 5B.

C.7 Data Quality Indicators

This section summarizes the validation performed. Section C.8 summarizes by analyses the overall quality of the data based on the PARCCS parameters. Individual SDG validation reports with specific sample detail are provided in this Appendix .

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) as described in the work plan/SAP (CDM 2010). These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

C.7.1 Precision

Precision is a quantitative term that estimates the reproducibility of a set of replicate measurements under a given set of conditions. It is defined as a measurement of mutual agreement between measurements of the same property and is expressed in terms of relative percent difference (RPD) between duplicate determinations.

RPD is calculated as follows:

RPD = absolute value [(C1-C2)/{(C1+C2)/2)}] x 100%

Where:

C1 = concentration of primary sample
C2 = concentration of duplicate sample

Field and analytical precision were determined from the review of the field duplicate results. The sample results were compared by calculating their RPDs. The field duplicate samples were collected in the same manner as the original samples but were collected in separate, individual containers, given separate sample identifiers, and treated as individual samples by the laboratory.

Laboratory RPD control limits are presented in the work plan/SAP (CDM 2010) or are laboratory specific. The field duplicate RPD criterion is 50 percent. For laboratory duplicates, if one or both of the sample results are less than 2 times the RL, a control limit of the RL absolute value is used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project are validated following the criteria where if one result is non-detect and the other result is above the reporting limit, the RPD result is shown as 200 percent and the field duplicate sample and parent sample results are qualified as estimated "J" or "UJ." If the field duplicate RPD was above the 50 percent criteria (and both sample results were above the RL), the field duplicate and parent sample results for that analyte are qualified as estimated "J."

Qualifiers are applied to applicable sample analyte results during the validation process based on laboratory and field RPD results. Details are discussed in the laboratory validation reports in this Appendix and are summarized in Section C.8. Table C-4 shows the field duplicate pairs and RPD results that were outside of criteria. All field duplicate RPD results are presented in Appendix C.

RPD objectives are analyte dependent. There is no discernable pattern or reason for the exceedances. No field sampling issues were identified from the RPD results that were outside of criteria and the exceedances are reasonable for this type of sampling activity.

C.7.2 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value and is a measure of the bias in a system. Accuracy of the data was assessed by comparing LCS recovery, MS recovery, calibration recovery, Inductively Coupled Plasma (ICP) interferences, and by performing serial dilution checks during metals analyses. Accuracy is expressed as percent recovery (%R), which is calculated by:

$$\text{Percent Recovery} = \frac{(\text{Total Analyte Found} - \text{Analyte Originally Present})}{\text{Analyte Added}} \times 100$$

Analytical accuracy for the entire data collection activity is difficult to assess because several sources of error exist. Errors can be introduced by any of the following:

- Sampling procedure
- Field contamination
- Sample preservation and handling
- Sample matrix
- Sample preparation
- Analytical techniques

Accuracy is maintained to the extent possible by adhering to the EPA method and approved field and analytical standard operating procedures.

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory accuracy results and are discussed in detail in the laboratory validation reports in Appendix C and are summarized in Section C.8.

Sample preservation, handling, and holding times are additional measures of accuracy of the data. All sample preservation and handling criteria were met or performed in a manner that addressed field conditions during sampling as discussed in Section 2.6. of the TM. Section 2.6 states that most of the samples collected from the NBZ were in locations accessible only by foot, thus the sampling team was in the field all day. It was not feasible or safe to carry a cooler with ice to and from these locations, so a field decision was made that all sediment samples would be placed on

ice at the end of the work day. This was done so that all of the sediment samples were handled in the same manner, and some would not be refrigerated for a longer time than others prior to being shipped to the laboratory.

C.7.3 Blank Contamination

Field blanks (e.g., equipment and trip) and laboratory method blanks are analyzed to identify possible sources of contamination. Contamination of a sample can be introduced by field sample collection methods, sample handling, preparation, and/or analysis. The laboratory validation reports in this Appendix and the summary in Section C.8 discuss the results qualified based on field and laboratory blank contamination.

The reported sample results were judged to be valid after validation. In general, all detected concentrations were below the RL indicating field sample collection and equipment decontamination activities were adequately performed.

C.7.4 Representativeness, Comparability, and Sensitivity

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the field sampling and analysis plan for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

C.7.4.1 Representativeness

Representativeness is a qualitative term that expresses the degree to which the sample data accurately and precisely represent the environmental conditions corresponding to the location and depth interval of sample collection. Requirements and procedures for sample collection are designed to maximize sample representativeness.

Representativeness also can be monitored by reviewing field documentation and/or by performing field audits. For this report, a detailed review was performed on the COC forms, field data collection forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the work plan/SAP (CDM 2010) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

Field sampling accuracy was attained through strict adherence to the approved field sampling and analysis plan and by using approved standard operating procedures for field data collection. Based on this, the data should represent as near as possible the actual field conditions at the time of sampling.

Representativeness, has been achieved by the performed field work and laboratory analyses. The analytical data generated, that have not been rejected, are reviewed to be a representative characterization of the project area.

C.7.4.2 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Strict adherence to standard sample collection procedures, analytical detection limits, and analytical methods assures that data from like samples and sample conditions are comparable. This comparability is independent of laboratory personnel, data reviewers, or sampling personnel. Comparability criteria are met for the project if, based on data review, the sample collection and analytical procedures are determined to have been followed, or defined to show that variations did not affect the values reported.

To ensure comparability of data generated for the site, standard sample collection procedures and Department of toxic Substances Control (DTSC)-approved analytical methods were utilized by CDM. The sample analyses were performed by LLI in Lancaster, Pennsylvania. Utilizing such procedures and methods enables the current data to be comparable with previous and future data sets generated with similar methods.

C.7.4.3 Sensitivity

Sensitivity is related to the ability to compare analytical results with project-specific levels of interest, such as risk-based screening levels or action levels. Analytical detection limits for the various sample analytes should be below the level of interest to allow an effective comparison.

Detection Limits

Each analytical method used during the sampling events was selected because it had potential to achieve target detection limits established for this project. For each analyte, target detection limits were established with the laboratory with the goal to achieve analytical results at or below regulatory comparison criteria.

The MDL is described in the methods and is defined as the concentration of an analyte that produces a signal with a 99 percent probability that the concentration is above that of a blank. A blank is a sample that does not contain measurable concentrations of the analyte of concern. Tested by statistical performance, calibration samples, and LCSs, MDLs represent the best fundamental measurement of instrument sensitivity and the basis for establishing RLs.

The laboratory RL is typically about 3 to 5 times higher than the method detection limit (MDL). The RL is a laboratory-specific number, which is variable based on the sample matrix, moisture content, and other sample-specific factors. When a sample has to be diluted before analysis, either because of matrix problems or to bring the instrument response within the linear dynamic range, the RL is raised by a factor corresponding to the dilution factor.

Laboratory results are reported according to rules that provide established certainty of detection and RLs. The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if blank or other QC results fall outside the appropriate tolerance limits.

If an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

RLs are a compromise between analytical sensitivity and precision. Setting low RLs can lead to poorly defensible data because of false positive (Type I) and/or false negative (Type II) errors, whereas elevated RLs can hamper site characterization. Laboratory determinations of MDLs are performed on non-typical samples (e.g., distilled water) leading to idealized limits. Confidence in detection limits increases with instrument signal level above the MDL, and higher limits mean better precision.

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected and below the RL:

- Method 300 (Fluoride)
  - 5 individual analyte results
- Method 314 (Perchlorate)
  - 1 individual analyte results
- Method 6010B (Metals)
  - 127 individual analyte results
- Method 6020 (Metals)
  - 98 individual analyte results
- Method 6850 (Perchlorate)
  - 0 individual analyte results
- Method 7199 (Hexavalent Chromium)
  - 17 individual analyte results
- Method 7471A (Mercury)
  - 31 individual analyte results
- Method 8270C (SVOCs)
  - 39 individual analyte results
- Method 8270C SIM (SVOCs)
  - 211 individual analyte results
- Method 8081A (Pesticides)
  - 29 individual analyte results

- Method 8151A (Herbicides)
  - 24 individual analyte results

- Method 1613B (Dioxins/Furans)
  - 512 individual analyte results

- Method 8082 (PCBs)
  - 38 individual analyte results

In general, for the data validated in this report, detection limits for the sample results were low enough to compare to the action levels stated in the work plan/SAP (CDM 2010). The detection limits for this project are lower than "normal" environmental data analyses. Analytical laboratory methods are being modified in order to achieve these lower reporting limits. Current laboratory instrumentation technology can not achieve all of these low reporting limits, and this is why some of the RL's are above project criteria. These results are still considered usable for project decisions.

Data validation also determines the most valid analyte result to use for samples that are re-analyzed or diluted. These validated results are entered into the project database and used for decision-making.

C.8 Data Qualification Summary

The following bullets discuss the data validation qualifications, number of qualified results, and reasons for the qualifications. All individual analyte results discussed below were qualified as estimated "J/UJ," nondetect "U," or rejected "R" when indicated. Results that were qualified as estimated "J" or "UJ" are usable with caution. Results that were rejected "R" are not usable for any purpose. Specific details regarding sample numbers and analytes are presented in the validation reports located in Appendix C.

- Method 300.0 (Fluoride)

  - 10 individual fluoride results were qualified as estimated based on matrix spike %R results

  - 1 individual fluoride result was qualified as estimated based on field duplicate precision results

- Method 314 (Perchlorate) - No qualifiers were required based on validation criteria.

- Method 6010B (Metals)

  - 33 individual metal analyte results were qualified as estimated due to serial dilution %R results

- 24 individual metal analyte results were qualified as estimated based on laboratory duplicate precision results
- 1 individual metal analyte result was qualified as estimated based on field duplicate precision results
- 36 individual metal analyte results were qualified as estimated based on matrix spike %R results
- 37 individual metal analyte results were qualified as estimated based on analytes detected in the laboratory blanks

- Method 6020 (Metals)
  - 140 individual metal analyte results were qualified as estimated due to serial dilution %R results
  - 201 individual metal analyte results were qualified as estimated based on laboratory duplicate precision results.
  - 336 individual metal analyte results were qualified as estimated based on matrix spike %R criteria. Out of these results 2 antimony results were rejected due to this criterion.
  - 20 individual metal analyte results were qualified as estimated based on analytes detected in the laboratory blanks
- Method 6850 (Perchlorate) - No qualifiers were required based on validation criteria.
- Method 7199 (Hexavalent Chromium) - No qualifiers were required based on validation criteria.
- Method 7471A (Mercury) - No qualifiers were required based on validation criteria.
- Method 8270C (Semi-volatile Organic Compounds)
  - 1 individual SVOC analyte result was qualified as estimated based on field duplicate precision criteria
  - 2 individual SVOC analyte results were qualified as estimated based on matrix spike %R results
  - 8 individual SVOC analyte results were qualified as estimated based on laboratory control sample %R results
  - 2 individual SVOC analyte results were qualified as nondetect because of analytes detected in the laboratory blanks

- Method 8270C SIM (Polyaromatic Hydrocarbons)
  - 11 individual PAH analyte results were qualified as estimated based on field duplicate precision criteria
  - 3 individual PAH analyte results were qualified as estimated based on matrix spike %R results
  - 6 individual PAH analyte result was qualified as estimated based on internal standard recovery results
  - 35 individual PAH analyte results were qualified as estimated based on laboratory control sample %R results
  - 2 individual PAH analyte results were qualified as nondetect because of analytes detected in the laboratory blanks
  - 1 individual PAH analyte result was qualified as estimated based on calibration results
- Method 8081A (Pesticides)
  - 12 individual pesticide analyte results were qualified as estimated because the RPD results between the two columns were outside of criteria
  - 5 individual pesticide analyte results were qualified as estimated based on field duplicate precision criteria
  - 196 individual pesticide analyte results were qualified as estimated based on surrogate %R results; out of those results 79 individual pesticide analyte results were rejected based on this criterion
  - 29 individual pesticide analyte results were qualified as estimated based on calibration %R results
  - 13 individual pesticide analyte results were qualified as estimated based on laboratory control sample %R results
- Method 8082A (Polychlorinated Biphenyls)
  - 9 individual pesticide analyte results were qualified as estimated because the RPD results between the two columns were outside of criteria
  - 3 individual pesticide analyte results were qualified as estimated based on field duplicate precision criteria
  - 33 individual pesticide analyte results were qualified as estimated based on surrogate %R results

- 106 individual pesticide analyte results were qualified as estimated based on laboratory control sample %R results
- 1 individual PCB analyte result was qualified as estimated based on matrix spike %R recovery results

- Method 8151A (Herbicides)
  - 4 individual herbicide analyte results were qualified as estimated because the RPD results between the two columns were outside of criteria
  - 4 individual herbicide analyte results were qualified as estimated based on field duplicate precision criteria
  - 2 individual herbicide analyte results were qualified as estimated based on matrix spike %R results
  - 5 individual herbicide analyte results were qualified as estimated based on surrogate %R results
  - 21 individual herbicide analyte results were qualified as estimated based on calibration %R results
  - 34 individual herbicide analyte results were qualified as estimated based on laboratory control sample %R results; out of these results 36 individual herbicide analyte results were rejected based on this criterion
  - 1 individual herbicide analyte result was qualified as estimated based on analytes detected in the laboratory blanks
- Method EPA 1630M (Methyl Mercury) - No qualifiers were required based on validation criteria.
- National Oceanic and Atmospheric Administration (NOAA) Status and Trends (Organotins)
  - 1 monobutyltin result was qualified as estimated based on laboratory control sample %R results
- Method 1613B (Dioxins/Furans)
  - 1 individual dioxin analyte results were qualified as estimated based on field duplicate precision criteria
  - 4 individual dioxin analyte results were qualified as estimated based on sample concentrations being greater than the calibration range

- 203 individual dioxin analyte results were qualified as nondetect because of analytes detected in the laboratory blanks

Estimated detection limits (EDLs) for the dioxins are calculated for each sample. The EDLs for this analysis are very low, reported in ng/kg or parts per trillion, resulting in numerous results qualified as estimated "J" values because they were below the RL (Section C.7). Many of these estimated values have been subsequently qualified as nondetect "U" because the compound was detected in related laboratory blanks. The laboratory blank results correlate to the sample EDLs and low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks were well below site-related action levels. Therefore, the resulting qualification of associated sample results as not detected or "U" qualified data do not falsely diminish identification of site-related contaminants.

C.9 Review of Selected Validation Reports

CDM performed a review of the validation reports identified in Table C-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results were verified against the laboratory data packages and validation documents were followed as required.

C.10 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the final work plan versus the actual number of samples collected during the field program (see equation A).

Completeness for acceptable data is defined as the percentage of acceptable data obtained judged to be valid versus the total quantity of data generated (see equation B). Acceptable data include both data that pass all the QC criteria (unqualified data) and data that may not pass all the QC criteria but had appropriate corrective actions taken (qualified but usable data).

A. $$\%\text{Completeness} = C \times \frac{100}{n}$$

Where:

C = actual number of samples collected
n = total number of samples planned

B. $$\%\text{Completeness} = V \times \frac{100}{n'}$$

Where:

V = number of measurements judged valid
n' = total number of measurements made

The overall completeness goal for these sampling events was 90 percent for all project data.

A total of 47 drainage sediment environmental samples were collected and analyzed. This sample count included field duplicates, MS/MSDs, and field blanks. A total of 48 samples were to be collected for analyses. As discussed in Section 2.6 of the Sediment Technical Memorandum, one equipment rinsate blank sample was not collected based on field conditions and locations. Ninety-eight percent of the samples identified in the work plan were collected meeting the completeness goal for the number of samples collected versus number of samples planned.

The completeness goal for acceptable data achieved was 98.3 percent of the number of measurements judged to be valid versus the total number of measurements made for all sample analyses for the drainage sediment samples. Table C-5, Completeness Calculation Summary, shows a summary of all results that were estimated or rejected.

The following individual analyte results were rejected per analyses:

- Method 6020
  - 2 individual metal analyte results out of 1449 results (0.31%)
- Method 8081A
  - 79 individual pesticide analyte results out of 840 results (9.49%)
- Method 8151A
  - 36 individual herbicide analyte results out of 400 results (9%)

The completeness goals for both the number of samples collected for all sampling events and the number of measurements judged to be valid were met.

Sample deviations are discussed in Section 2.6 of the Sediment Technical Memorandum. Deviations did not impact DQOs for this sampling event. The data reported, and not rejected, are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the work plan/SAP (CDM 2010) met appropriate criteria. The achievement of the completeness goals for the data provides sufficient quality data for project decisions.

C.11 Assessment of Data Usability and Reconciliation with Work Plan Goals

Ninety-eight percent of the data validated and reported and in this TM are suitable for their intended use for site characterization. Sample results that were rejected are not suitable for project use. The detection limits reported generally met the expected limits proposed by the analytical laboratory in their contract agreement with CDM.

Sample results that were qualified as estimated are usable for project decisions. Numerous dioxin results were qualified as estimated and/or nondetect due to the low detection limits. This data is considered usable for project decisions.

The achievement of the completeness goals for number of samples collected, and the number of sample results acceptable for use provides sufficient quality data to support project decisions as well. Field duplicate precision also met criteria a majority of the time. RPDs were outside criteria predominantly when the sample results were close to the RL and/or below the project required action limits. Decisions based on results close to the RL should be made with a degree of caution.

Table C-1 Sample Delivery Groups and Validation Levels

Sample Delivery Group	Level III Validation Performed	Level IV Validation Performed	CDM Review
DE036	YES		
DE037	YES		
DE038	YES		YES
DE039	YES		
DE040	YES		
DE042		YES	
DE045	YES		
DE046		YES	YES
DE050	YES		
DE051	YES		
DE060	YES		
DE159	YES		
DX020	YES		YES
DX021	YES		
DX022	YES		
DX023	YES		
DX024	YES		
DX026	YES		
DX029		YES	YES
DX033		YES	
DX034	YES		
DX038	YES		
DX087	YES		

Table C-2 Equipment Rinsate Blank Results for Drainage Sediment Samples

Sample Name:		EB01-SIV-121710	
EPA Sample Name:		6169018	
Sample Date:		2010-12-17	
Sample Type		Equipment Blank	
Analyte	**Units**	**Concentration**	**Final Qualifer**
1,2,3,4,6,7,8-HPCDD	pg/l	10.8	U
1,2,3,4,6,7,8-HPCDF	pg/l	10.8	U
1,2,3,4,7,8,9-HPCDF	pg/l	10.8	U
1,2,3,4,7,8-HxCDD	pg/l	10.8	U
1,2,3,4,7,8-HXCDF	pg/l	10.8	U
1,2,3,6,7,8-HXCDD	pg/l	10.8	U
1,2,3,6,7,8-HXCDF	pg/l	10.8	U
1,2,3,7,8,9-HXCDD	pg/l	10.8	U
1,2,3,7,8,9-HXCDF	pg/l	10.8	U
1,2,3,7,8-PECDD	pg/l	10.8	U
1,2,3,7,8-PECDF	pg/l	10.8	U
1,2,4-TRICHLOROBENZENE	ug/l	5	U
1,2-DICHLOROBENZENE	ug/l	5	U
1,2-Diphenylhydrazine/Azobenzene	ug/l	5	U
1,3-DICHLOROBENZENE	ug/l	5	UJ
1,4-DICHLOROBENZENE	ug/l	5	UJ
1-METHYLNAPHTHALENE	ug/l	0.052	U
2,3,4,6,7,8-HXCDF	pg/l	10.8	U
2,3,4,7,8-PECDF	pg/l	10.8	U
2,3,7,8-TCDD	pg/l	2.16	UJ
2,3,7,8-TCDF	pg/l	2.16	U
2,4,5-T	ug/l	0.052	U
2,4,5-TP (Silvex)	ug/l	0.052	U
2,4,5-TRICHLOROPHENOL	ug/l	5	U
2,4,6-TRICHLOROPHENOL	ug/l	5	U
2,4-D	ug/l	0.52	U
2,4-DB	ug/l	1	U
2,4-DICHLOROPHENOL	ug/l	5	U
2,4-DIMETHYLPHENOL	ug/l	10	U
2,4-DINITROPHENOL	ug/l	30	U
2,4-DINITROTOLUENE	ug/l	5	U
2,6-DINITROTOLUENE	ug/l	5	U
2-CHLORONAPHTHALENE	ug/l	5	U
2-CHLOROPHENOL	ug/l	5	U
2-METHYLNAPHTHALENE	ug/l	0.052	UJ
2-METHYLPHENOL	ug/l	5	U
2-NITROANILINE	ug/l	5	U
2-NITROPHENOL	ug/l	5	U
3,3'-DICHLOROBENZIDINE	ug/l	5	U
3,5-Dimethylphenol	ug/l	10	U
3-NITROANILINE	ug/l	5	U
4,4'-DDD	ug/l	0.021	U
4,4'-DDE	ug/l	0.021	U
4,4'-DDT	ug/l	0.021	U
4,6-DINITRO-2-METHYLPHENOL	ug/l	15	U
4-BROMOPHENYL-PHENYLETHER	ug/l	5	U
4-CHLORO-3-METHYLPHENOL	ug/l	5	U
4-CHLOROANILINE	ug/l	5	UJ
4-CHLOROPHENYL-PHENYLETHER	ug/l	5	U
4-METHYLPHENOL	ug/l	5	U
4-NITROANILINE	ug/l	5	U
4-NITROPHENOL	ug/l	30	U
ACENAPHTHENE	ug/l	0.052	U
ACENAPHTHYLENE	ug/l	0.052	U
ALDRIN	ug/l	0.01	U
ALPHA-BHC	ug/l	0.01	U
ALUMINUM	mg/l	0.2	U
ANILINE	ug/l	5	UJ
ANTHRACENE	ug/l	0.052	U
ANTIMONY	mg/l	0.001	U

Table C-2 Equipment Rinsate Blank Results for Drainage Sediment Samples

	Sample Name:	EB01-SIV-121710	
	EPA Sample Name:	6169018	
	Sample Date:	2010-12-17	
	Sample Type	Equipment Blank	
Analyte	**Units**	**Concentration**	**Final Qualifer**
AROCLOR 1016	ug/l	0.51	U
AROCLOR 1221	ug/l	0.51	U
AROCLOR 1232	ug/l	0.51	U
AROCLOR 1242	ug/l	0.51	U
AROCLOR 1248	ug/l	0.51	U
AROCLOR 1254	ug/l	0.51	U
AROCLOR 1260	ug/l	0.51	U
Aroclor 1262	ug/l	0.51	U
Aroclor 1268	ug/l	0.51	U
Aroclor 5432	ug/l	0.51	UJ
Aroclor 5442	ug/l	0.51	UJ
Aroclor 5460	ug/l	0.51	UJ
ARSENIC	mg/l	0.002	U
BARIUM	mg/l	0.002	U
BENZIDINE	ug/l	59	UJ
BENZO(A)ANTHRACENE	ug/l	0.052	U
BENZO(A)PYRENE	ug/l	0.052	U
BENZO(B)FLUORANTHENE	ug/l	0.052	U
BENZO(G,H,I)PERYLENE	ug/l	0.052	UJ
BENZO(K)FLUORANTHENE	ug/l	0.052	U
BENZOIC ACID	ug/l	15	UJ
BENZYL ALCOHOL	ug/l	15	U
BERYLLIUM	mg/l	0.0005	U
BETA-BHC	ug/l	0.01	U
BIS(2-CHLOROETHOXY)METHANE	ug/l	5	U
BIS(2-CHLOROETHYL) ETHER	ug/l	5	U
BIS(2-CHLOROISOPROPYL) ETHER	ug/l	5	U
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	1	U
BORON	mg/l	0.05	U
Butylbenzylphthalate	ug/l	1	U
CADMIUM	mg/l	0.0005	U
CALCIUM	mg/l	0.2	U
CARBAZOLE	ug/l	5	U
Chlordane	ug/l	0.51	U
CHROMIUM	mg/l	0.002	U
CHRYSENE	ug/l	0.052	U
COBALT	mg/l	0.0005	U
COPPER	mg/l	0.002	U
DALAPON	ug/l	1.3	U
DELTA-BHC	ug/l	0.01	U
DIBENZO(A,H)ANTHRACENE	ug/l	0.052	UJ
DIBENZOFURAN	ug/l	5	U
DICAMBA	ug/l	0.31	U
DICHLOROPROP	ug/l	0.52	U
DIELDRIN	ug/l	0.021	U
Diethylphthalate	ug/l	0.054	J
Dimethylphthalate	ug/l	1	U
Di-n-butylphthalate	ug/l	1	U
Di-n-octylphthalate	ug/l	1	U
DINOSEB	ug/l	0.52	U
ENDOSULFAN I	ug/l	0.01	U
ENDOSULFAN II	ug/l	0.021	U
ENDOSULFAN SULFATE	ug/l	0.021	U
ENDRIN	ug/l	0.021	U
ENDRIN ALDEHYDE	ug/l	0.1	U
ENDRIN KETONE	ug/l	0.021	U
FLUORANTHENE	ug/l	0.052	U
FLUORENE	ug/l	0.052	U
FLUORIDE	mg/l	0.1	U
gamma-BHC (Lindane)	ug/l	0.01	U

Table C-2 Equipment Rinsate Blank Results for Drainage Sediment Samples

Sample Name:		EB01-SIV-121710	
EPA Sample Name:		6169018	
Sample Date:		2010-12-17	
Sample Type		Equipment Blank	
Analyte	**Units**	**Concentration**	**Final Qualifer**
HEPTACHLOR	ug/l	0.01	U
HEPTACHLOR EPOXIDE	ug/l	0.01	U
HEXACHLOROBENZENE	ug/l	5	U
HEXACHLOROBUTADIENE	ug/l	5	U
HEXACHLOROCYCLOPENTADIENE	ug/l	15	UJ
HEXACHLOROETHANE	ug/l	5	U
HEXAVALENT CHROMIUM	ug/l	10	UJ
INDENO(1,2,3-CD)PYRENE	ug/l	0.052	UJ
IRON	mg/l	0.2	U
ISOPHORONE	ug/l	5	U
LEAD	mg/l	0.001	U
LITHIUM	mg/l	0.02	U
MAGNESIUM	mg/l	0.1	U
MANGANESE	mg/l	0.005	U
MCPA	ug/l	1000	U
MCPP	ug/l	210	U
MERCURY	mg/l	0.0002	U
METHOXYCHLOR	ug/l	0.1	U
MIREX	ug/l	0.26	U
MOLYBDENUM	mg/l	0.0005	U
NAPHTHALENE	ug/l	0.051	J
NICKEL	mg/l	0.002	U
NITROBENZENE	ug/l	5	U
N-NITROSODIMETHYLAMINE	ug/l	0.052	UJ
N-NITROSO-DI-N-PROPYLAMINE	ug/l	5	U
N-NITROSODIPHENYLAMINE	ug/l	5	U
OCDD	pg/l	13.7	J
OCDF	pg/l	21.6	U
PENTACHLOROPHENOL	ug/l	15	U
PERCHLORATE	ug/l	2	U
PHENANTHRENE	ug/l	0.052	UJ
PHENOL	ug/l	5	U
PHOSPHORUS	mg/l	0.1	U
POTASSIUM	mg/l	0.5	U
PYRENE	ug/l	0.052	U
SELENIUM	mg/l	0.002	U
SILVER	mg/l	0.0005	U
SODIUM	mg/l	1	U
STRONTIUM	mg/l	0.005	U
THALLIUM	mg/l	0.0005	U
TIN	mg/l	0.02	U
TITANIUM	mg/l	0.01	U
TOXAPHENE	ug/l	3.1	U
VANADIUM	mg/l	0.0005	U
ZINC	mg/l	0.015	U
Zirconium	mg/l	0.05	U

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
pg/L - picograms per liter
ng/L - nanograms per liter
U - Nondetect
UJ - Estimated nondetect result
J - Estimated

Table C-3 - Field Blank Results for Drainage Sediment Samples

	Sample Name:	FB08-SIV-052311	
	EPA Sample Name:	1105316-03	
	Sample Date:	2011-05-23	
	Sample Type	Field Blank	
Analyte	**Units**	**Concentration**	**Final Qualifer**
Methyl Mercury	ng/l	0.05	U
Tetrabutyltin	ug/L	0.048	U
Tributyltin	ug/L	0.043	U
Dibutyltin	ug/L	0.038	U
Monobutyltin	ug/L	0.48	UJ

Notes:
ug/L - micrograms per liter
ng/L - nanograms per liter
U - Nondetect
UJ - Estimated nondetect result

Table C-4 - Field Duplicate Results for Drainage Sediment Samples

				Location	SED-002-SIV	SED-002-SIV	RPD or Absolute Criteria	SED-005-SIV	SED-005-SIV	RPD or Absolute Criteria
				Sample Name:	DUP02-SIV-QC-122110	SED-002-SIV-SD-0.0-0.5		DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5	
				Sample Date	12/21/2010	12/21/2010		12/20/2010	12/20/2010	
				Start Depth:	0	0		0	0	
				End Depth:	0.5	0.5		0.5	0.5	
				Area:	SED	SED		SED	SED	
				Matrix:	SE	SE		SE	SE	
				Sample Type:	FD	N		FD	N	
Chemical Name:	CAS No.:	Lab Method:	Result Unit							
Aluminum	7429-90-5	6010B	mg/kg	13700	14600	-6.36	15100	15200	-0.66
Antimony	7440-36-0	6020	mg/kg	0.0806 J	0.111 J	-31.73	0.248 UJ	0.24 UJ	--
Arsenic	7440-38-2	6020	mg/kg	6.94 J	6.18 J	11.59	5.3 J	5.63 J	-6.04
Barium	7440-39-3	6020	mg/kg	112	104	7.41	122 J	113 J	7.66
Beryllium	7440-41-7	6020	mg/kg	0.565	0.574	-1.58	0.646	0.649	-0.46
Boron	7440-42-8	6010B	mg/kg	4.68 J	4.65 J	0.64	5 J	4.11 J	19.54
Cadmium	7440-43-9	6020	mg/kg	0.239 J	0.233 J	2.54	0.267 J	0.224 J	17.52
Calcium	7440-70-2	6010B	mg/kg	2800	2940	-4.88	2620	2560	2.32
Chromium	7440-47-3	6020	mg/kg	22 J	20.4 J	7.55	21.4 J	25.3 J	-16.70
Chromium VI	18540-29-9	7199	mg/kg	0.31 J	0.25 J	21.43	0.37 J	0.6 J	-47.42
Cobalt	7440-48-4	6020	mg/kg	6.5 J	5.89 J	9.85	6.69 J	6.97 J	-4.10
Copper	7440-50-8	6020	mg/kg	9.16 J	8.69 J	5.27	10.4 J	11 J	-5.61
Fluoride	16984-48-8	300	mg/kg	1.2 UJ	1.1 J	200.00	2.3 J	2.6 J	-12.24
Iron	7439-89-6	6010B	mg/kg	20400	22100	-8.00	18600	19200	-3.17
Lead	7439-92-1	6020	mg/kg	10.3 J	10 J	2.96	18.4 J	16.5 J	10.89
Lithium	7439-93-2	6010B	mg/kg	26.9	29.2	-8.20	22.7 J	22.6 J	0.44
Magnesium	7439-95-4	6010B	mg/kg	5760	6260	-8.32	4410	4420	-0.23
Manganese	7439-96-5	6010B	mg/kg	300	332	-10.13	287	287	0.00
Mercury	7439-97-6	7471A	mg/kg	0.11 U	0.114 U	-3.57	0.0285 J	0.0309 J	-8.08
Molybdenum	7439-98-7	6020	mg/kg	0.545 J	0.457 J	17.56	0.747 J	0.819 J	-9.20
Nickel	7440-02-0	6020	mg/kg	13.1 J	12.1 J	7.94	16.3 J	17.6 J	-7.67
Percent Moisture	MOIST	160.3M	%	15.9	16.4	-3.10	20.8	19.1	8.52
Perchlorate	14797-73-0	314	ug/kg	35.7 U	35.9 U	--	37.9 U	37.1 U	--
pH	pH	9045M	pH unit	6.52	6.51	0.15	5.94	6.64	-11.13
Phosphorus	7723-14-0	6010B	mg/kg	487	501	-2.83	462	451	2.41
Potassium	7440-09-7	6010B	mg/kg	3540	3940	-10.70	3130	3360	-7.09
Selenium	7782-49-2	6020	mg/kg	0.131 J	0.153 J	-15.49	0.183 J	0.199 J	-8.38
Silver	7440-22-4	6020	mg/kg	0.0362 J	0.0286 J	23.46	0.0727 J	0.0489 J	39.14
Sodium	7440-23-5	6010B	mg/kg	70.3 J	74.9 J	-6.34	75 J	75.7 J	-0.93
Strontium	7440-24-6	6010B	mg/kg	13.3	13.6	-2.23	16.2 J	15.8 J	2.50
Thallium	7440-28-0	6020	mg/kg	0.282	0.296	-4.84	0.366 J	0.358 J	2.21
Tin	7440-31-5	6010B	mg/kg	11.3 U	11.4 U	--	12.1 U	12 U	--
Titanium	7440-32-6	6010B	mg/kg	1260	1360	-7.63	1090	1140	-4.48
Vanadium	7440-62-2	6020	mg/kg	45.8 J	42.4 J	7.71	40.6 J	43.7 J	-7.35
Zinc	7440-66-6	6020	mg/kg	82.1	70.9	14.64	86.4 J	82.4 J	4.74
Zirconium	7440-67-7	6010B	mg/kg	3.82 J	4.42 J	-14.56	1.2 J	6 UJ	200.00
1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	2.04 J	2.08 J	-1.94	8.87	8.71	1.82
1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	0.494 J	0.578 J	-15.67	6.31 U	6.18 U	--
1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	0.183 J	0.149 J	20.48	0.893 J	0.918 J	-2.76
1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.95 U	5.98 U	--	0.927 J	0.99 J	-6.57
1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.95 U	5.98 U	--	1.94 J	2.12 J	-8.87
2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.95 U	5.98 U	--	6.31 U	6.18 U	--
2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.19 U	1.2 U	--	0.0424 J	1.24 UJ	200.00
2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.176 J	0.112 J	44.44	4.94	4.44	10.66
Aroclor 1016	12674-11-2	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 1221	11104-28-2	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 1232	11141-16-5	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 1242	53469-21-9	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 1248	12672-29-6	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 1254	11097-69-1	8082	ug/kg	2 U	2 U	--	2.1 UJ	12 J	200.00
Aroclor 1260	11096-82-5	8082	ug/kg	0.68 J	0.65 J	4.51	2.1 UJ	4.2 J	200.00
Aroclor 1262	37324-23-5	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 1268	11100-14-4	8082	ug/kg	2 U	2 U	--	2.1 U	4.2 U	--
Aroclor 5432	63496-31-1	8082	ug/kg	3.9 UJ	3.9 UJ	--	4.2 UJ	8.2 UJ	--
Aroclor 5442	12642-23-8	8082	ug/kg	3.9 UJ	3.9 UJ	--	4.2 UJ	8.2 UJ	--
Aroclor 5460	11126-42-4	8082	ug/kg	1.9 J	1.3 J	37.50	4.2 UJ	8 J	200.00
OCDD	3268-87-9	1613B	ng/kg	14.7	13.8	6.32	70.8	62.3	12.77
OCDF	39001-02-0	1613B	ng/kg	11.9 U	12 U	--	3.65 J	3.16 J	14.39
2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	11 U	11 U	--	11 UJ	11 UJ	--
2,4 DB	94-82-6	8151A	ug/kg	4.4 U	3.7 U	--	5.8 U	4.6 U	--
2,4,5-T	93-76-5	8151A	ug/kg	0.2 U	0.2 U	--	0.21 U	0.21 U	--
2,4,5-TP	93-72-1	8151A	ug/kg	0.18 J	0.2 UJ	200.00	0.18 J	0.21 UJ	200.00
2,4-D	94-75-7	8151A	ug/kg	4.3 U	4.3 U	--	4.5 UJ	4.4 UJ	--
4,4'-DDD	72-54-8	8081A	ug/kg	0.4 UJ	0.41 U	--	0.48 U	0.42 UJ	--
4,4'-DDE	72-55-9	8081A	ug/kg	0.4 UJ	0.41 U	--	0.71 J	0.53 UJ	200.00
4,4'-DDT	50-29-3	8081A	ug/kg	0.49 UJ	0.55 U	--	0.86 J	0.83 UJ	3.55
Aldrin	309-00-2	8081A	ug/kg	0.2 UJ	0.2 U	--	0.21 U	0.21 UJ	--
Alpha-BHC	319-84-6	8081A	ug/kg	0.2 UJ	0.2 UJ	--	0.21 U	0.21 UJ	--
Beta-BHC	319-85-7	8081A	ug/kg	0.2 UJ	0.2 U	--	0.21 U	0.21 UJ	--
Chlordane	57-74-9	8081A	ug/kg	4 UJ	4.1 U	--	4.3 U	4.2 UJ	--
Delta-BHC	319-86-8	8081A	ug/kg	0.2 UJ	0.2 U	--	0.21 U	0.21 UJ	--
Dicamba	1918-00-9	8151A	ug/kg	1.2 J	1.4 UJ	200.00	1.5 U	1.5 U	--
Dichlorprop	120-36-5	8151A	ug/kg	0.96 J	2 UJ	200.00	2.1 U	2.1 U	--
Dieldrin	60-57-1	8081A	ug/kg	0.4 UJ	0.41 U	--	0.43 U	0.42 UJ	--
Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	2.9 R	2.9 R	--	3 UJ	3 UJ	--
Endosulfan I	959-98-8	8081A	ug/kg	0.2 UJ	0.2 U	--	0.21 U	0.21 UJ	--
Endosulfan II	33213-65-9	8081A	ug/kg	0.4 UJ	0.41 U	--	0.43 U	0.42 UJ	--
Endosulfan Sulfate	1031-07-8	8081A	ug/kg	0.4 UJ	0.41 U	--	0.43 U	0.42 UJ	--
Endrin	72-20-8	8081A	ug/kg	0.4 UJ	0.41 U	--	0.43 U	0.42 UJ	--
Endrin Aldehyde	7421-93-4	8081A	ug/kg	0.4 UJ	0.41 U	--	0.27 J	0.42 UJ	200.00
Endrin Ketone	53494-70-5	8081A	ug/kg	0.4 UJ	0.41 U	--	0.43 U	0.42 UJ	--
Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	0.2 UJ	0.2 UJ	--	0.21 U	0.21 UJ	--
Heptachlor	76-44-8	8081A	ug/kg	0.2 UJ	0.2 U	--	0.21 U	0.21 UJ	--
Heptachlor Epoxide	1024-57-3	8081A	ug/kg	0.2 UJ	0.2 U	--	0.078 J	0.21 UJ	200.00
MCPA	94-74-6	8151A	ug/kg	300 U	300 U	--	320 U	310 U	--
MCPP	93-65-2	8151A	ug/kg	300 U	300 U	--	320 U	310 U	--
Methoxychlor	72-43-5	8081A	ug/kg	2 UJ	2 U	--	2.1 U	2.1 UJ	--
Mirex	2385-85-5	8081A	ug/kg	0.4 UJ	0.41 U	--	0.095 J	0.42 UJ	200.00
Toxaphene	8001-35-2	8081A	ug/kg	7.8 UJ	7.9 U	--	8.3 U	8.2 UJ	--
1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--

Table C-4 - Field Duplicate Results for Drainage Sediment Samples

			Location	SED-002-SIV	SED-002-SIV	**RPD or Absolute Criteria**	SED-005-SIV	SED-005-SIV	**RPD or Absolute Criteria**
			Sample Name:	DUP02-SIV-QC-122110	SED-002-SIV-SD-0.0-0.5		DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5	
			Sample Date	12/21/2010	12/21/2010		12/20/2010	12/20/2010	
			Start Depth:	0	0		0	0	
			End Depth:	0.5	0.5		0.5	0.5	
			Area:	SED	SED		SED	SED	
			Matrix:	SE	SE		SE	SE	
			Sample Type:	FD	N		FD	N	
Chemical Name:	CAS No.:	Lab Method:	Result Unit						
Aluminum	7429-90-5	6010B	mg/kg	13700	14600	-6.36	15100	15200	-0.66
Antimony	7440-36-0	6020	mg/kg	0.0806 J	0.111 J	-31.73	0.248 UJ	0.24 UJ	--
2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2,4-Dichlorophenol	120-83-2	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2,4-Dimethylphenol	105-67-9	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2,4-Dinitrophenol	51-28-5	8270C	ug/kg	2400 U	2400 U	--	2500 U	2500 U	--
2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2-Chloronaphthalene	91-58-7	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2-Chlorophenol	95-57-8	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--
2-Methylphenol	95-48-7	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2-Nitroaniline	88-74-4	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
2-Nitrophenol	88-75-5	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	400 U	400 U	--	420 U	410 U	--
3,5-Dimethylphenol	108-68-9	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
3-Nitroaniline	99-09-2	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4-Chloroaniline	106-47-8	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4-Methylphenol	106-44-5	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4-Nitroaniline	100-01-6	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
4-Nitrophenol	100-02-7	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
Acenaphthene	83-32-9	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--
Acenaphthylene	208-96-8	8270C SIM	ug/kg	0.47 J	2 UJ	200*	2.1 U	2.1 U	--
Aniline	62-53-3	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
Anthracene	120-12-7	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--
Benzidine	92-87-5	8270C	ug/kg	4000 U	4000 UJ	--	4200 U	4100 UJ	--
Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--
Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	2 U	2 U	--	2.1 UJ	1.2 J	200.00
Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.5 J	1.3 J	14.29	2.1 UJ	2.6 J	200.00
Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	2 U	2 UJ	--	2.1 UJ	1.9 J	200.00
Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	2 U	2 U	--	2.1 UJ	0.84 J	200.00
Benzoic Acid	65-85-0	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
Benzyl Alcohol	100-51-6	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	87 J	45 J	63.64	22 J	23 J	-4.44
Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	21 U	22 U	--	23 U	22 U	--
Carbazole	86-74-8	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Chrysene	218-01-9	8270C SIM	ug/kg	1.1 J	0.9 J	20.00	0.71 J	2.6 J	-114.20
Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--
Dibenzofuran	132-64-9	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Diethylphthalate	84-66-2	8270C SIM	ug/kg	21 U	22 U	--	23 U	22 U	--
Dimethylphthalate	131-11-3	8270C SIM	ug/kg	21 U	22 U	--	23 U	22 U	--
Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	21 U	22 U	--	23 U	22 U	--
Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	21 U	22 U	--	23 UJ	15 J	200.00
Fluoranthene	206-44-0	8270C SIM	ug/kg	1.6 J	1.1 J	37.04	2.1 UJ	2.6 J	200.00
Fluorene	86-73-7	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 U	--
Hexachlorobenzene	118-74-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Hexachlorobutadiene	87-68-3	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
Hexachloroethane	67-72-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	2 U	2 U	--	2.1 UJ	1.4 J	200.00
Isophorone	78-59-1	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Naphthalene	91-20-3	8270C SIM	ug/kg	2.4	2.6 J	-8.00	2.1 U	2.1 U	--
Nitrobenzene	98-95-3	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	2 U	2 U	--	2.1 U	2.1 UJ	--
N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Pentachlorophenol	87-86-5	8270C	ug/kg	590 U	600 U	--	630 U	620 U	--
Phenanthrene	85-01-8	8270C SIM	ug/kg	1.1 J	0.93 J	16.75	0.85 J	1.6 J	-61.22
Phenol	108-95-2	8270C	ug/kg	200 U	200 U	--	210 U	210 U	--
Pyrene	129-00-0	8270C SIM	ug/kg	1.1 J	1.3 J	-16.67	2.1 UJ	2.1 J	200.00

Notes:
ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per gram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
200* - When one result is nondetect a 200% RPD is given and sample results are qualified as estimated "J" or "UJ" in the field duplicate samples only
Limit - 50% - If RPD is above 50% detected field duplicate sample results only were estimated "J"
U - Nondetect
UJ - Estimated nondetect result
J - Estimated

Table C-5 Summary of Data Completeness Following Data Validation for Drainage Sediment Samples

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Non-Detect Results	Number of Estimated Non-Detect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Inorganics	489	717	2	135	21	1364	99.85%
Dioxins	142	309	0	232	1	684	100%
Polychlorinated Biphenyls	31	62	0	312	75	480	100%
Pesticides	11	46	79	571	133	840	90.6%
Herbicides	21	30	36	295	18	400	91%
Semivolatiles	9	37	0	1885	10	1941	100%
Polyaromatic Hydrocarbons	162	223	0	526	28	939	100%
Completeness Total for All Drainage Sediment Samples Collected and Judged Valid							**98.27%**

Appendix C
Data Validation Reports
(On CD)

Appendix C. Samples by SDG EQuIS for Sediment

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
SED	SED-029-SIV-SD-0.0-0.5	DE036	SE	2010-12-13	FIELD
SED	SED-030-SIV-SD-0.0-0.5	DE036	SE	2010-12-13	FIELD
SED	SED-031-SIV-SD-0.0-0.5	DE036	SE	2010-12-13	FIELD
SED	SED-040-SIV-SD-0.0-0.5	DE036	SE	2010-12-13	FIELD
SED	SED-032-SIV-SD-0.0-0.5	DE037	SE	2010-12-13	FIELD
SED	SED-033-SIV-SD-0.0-0.5	DE037	SE	2010-12-13	FIELD
SED	SED-025-SIV-SD-0.0-0.5	DE038	SE	2010-12-14	FIELD
	TB-121410	DE039	WQ	2010-12-14	FIELD
SED	SED-022-SIV-SD-0.0-0.5	DE039	SE	2010-12-14	FIELD
SED	SED-023-SIV-SD-0.0-0.5	DE039	SE	2010-12-14	FIELD
SED	SED-024-SIV-SD-0.0-0.5	DE039	SE	2010-12-14	FIELD
SED	SED-026-SIV-SD-0.0-0.5	DE039	SE	2010-12-14	FIELD
SED	SED-027-SIV-SD-0.0-0.5	DE039	SE	2010-12-14	FIELD
SED	SED-016-SIV-SD-0.0-0.5	DE040	SE	2010-12-15	FIELD
SED	SED-018-SIV-SD-0.0-0.5	DE040	SE	2010-12-15	FIELD
SED	SED-021-SIV-SD-0.0-0.5	DE040	SE	2010-12-15	FIELD
SED	SED-011-SIV-SD-0.0-0.5	DE042	SE	2010-12-16	FIELD
SED	SED-013-SIV-SD-0.0-0.5	DE042	SE	2010-12-16	FIELD
SED	SED-017-SIV-SD-0.0-0.5	DE042	SE	2010-12-16	FIELD
SED	SED-019-SIV-SD-0.0-0.5	DE042	SE	2010-12-16	FIELD
SED	SED-020-SIV-SD-0.0-0.5	DE042	SE	2010-12-16	FIELD
	TB-121710	DE045	WQ	2010-12-17	FIELD
SED	EB01-SIV-121710	DE045	WQ	2010-12-17	FIELD
SED	SED-001-SIV-SD-0.0-0.5	DE045	SE	2010-12-17	FIELD
SED	SED-004-SIV-SD-0.0-0.5	DE045	SE	2010-12-17	FIELD
SED	SED-006-SIV-SD-0.0-0.5	DE045	SE	2010-12-17	FIELD
SED	SED-012-SIV-SD-0.0-0.5	DE045	SE	2010-12-17	FIELD
SED	SED-014-SIV-SD-0.0-0.5	DE045	SE	2010-12-17	FIELD
SED	DUP01-SIV-QC-122010	DE046	SE	2010-12-20	FIELD
SED	SED-003-SIV-SD-0.0-0.5	DE046	SE	2010-12-20	FIELD
SED	SED-005-SIV-SD-0.0-0.5	DE046	SE	2010-12-20	FIELD
SED	SED-007-SIV-SD-0.0-0.6	DE046	SE	2010-12-20	FIELD
SED	SED-008-SIV-SD-0.0-0.5	DE046	SE	2010-12-20	FIELD
SED	SED-034-SIV-SD-0.0-0.5	DE046	SE	2010-12-20	FIELD
SED	SED-037-SIV-SD-0.0-0.5	DE046	SE	2010-12-20	FIELD
SED	DUP02-SIV-QC-122110	DE050	SE	2010-12-21	FIELD
SED	SED-002-SIV-SD-0.0-0.5	DE050	SE	2010-12-21	FIELD
SED	SED-015-SIV-SD-0.0-0.5	DE050	SE	2010-12-21	FIELD
SED	SED-036-SIV-SD-0.0-0.5	DE050	SE	2010-12-21	FIELD
SED	SED-038-SIV-SD-0.0-0.5	DE050	SE	2010-12-21	FIELD
SED	SED-039-SIV-SD-0.0-0.5	DE050	SE	2010-12-21	FIELD
	TB-122210	DE051	WQ	2010-12-22	FIELD
SED	SED-010-SIV-SD-0.0-0.5	DE051	SE	2010-12-22	FIELD
	TB-011311	DE060	WQ	2011-01-13	FIELD
SED	SED-009-SIV-SD-0.0-0.5	DE060	SE	2011-01-13	FIELD
SED	SED-028-SIV-SD-0.0-0.5	DE060	SE	2011-01-13	FIELD
	TB-052311	DE159	WQ	2011-05-23	FIELD
SED	SED-035-SIV-SD-0.0-0.5	DE159	SE	2011-05-23	FIELD

Appendix C. Samples by SDG EQuIS for Sediment

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
SED	SED-029-SIV-SD-0.0-0.5	DX020	SE	2010-12-13	FIELD
SED	SED-030-SIV-SD-0.0-0.5	DX020	SE	2010-12-13	FIELD
SED	SED-031-SIV-SD-0.0-0.5	DX020	SE	2010-12-13	FIELD
SED	SED-040-SIV-SD-0.0-0.5	DX020	SE	2010-12-13	FIELD
SED	SED-032-SIV-SD-0.0-0.5	DX021	SE	2010-12-13	FIELD
SED	SED-033-SIV-SD-0.0-0.5	DX021	SE	2010-12-13	FIELD
SED	SED-025-SIV-SD-0.0-0.5	DX022	SE	2010-12-14	FIELD
SED	SED-022-SIV-SD-0.0-0.5	DX023	SE	2010-12-14	FIELD
SED	SED-023-SIV-SD-0.0-0.5	DX023	SE	2010-12-14	FIELD
SED	SED-024-SIV-SD-0.0-0.5	DX023	SE	2010-12-14	FIELD
SED	SED-026-SIV-SD-0.0-0.5	DX023	SE	2010-12-14	FIELD
SED	SED-027-SIV-SD-0.0-0.5	DX023	SE	2010-12-14	FIELD
SED	SED-016-SIV-SD-0.0-0.5	DX024	SE	2010-12-15	FIELD
SED	SED-018-SIV-SD-0.0-0.5	DX024	SE	2010-12-15	FIELD
SED	SED-021-SIV-SD-0.0-0.5	DX024	SE	2010-12-15	FIELD
SED	SED-011-SIV-SD-0.0-0.5	DX026	SE	2010-12-16	FIELD
SED	SED-013-SIV-SD-0.0-0.5	DX026	SE	2010-12-16	FIELD
SED	SED-017-SIV-SD-0.0-0.5	DX026	SE	2010-12-16	FIELD
SED	SED-019-SIV-SD-0.0-0.5	DX026	SE	2010-12-16	FIELD
SED	SED-020-SIV-SD-0.0-0.5	DX026	SE	2010-12-16	FIELD
SED	DUP01-SIV-QC-122010	DX029	SE	2010-12-20	FIELD
SED	EB01-SIV-121710	DX029	WQ	2010-12-17	FIELD
SED	SED-001-SIV-SD-0.0-0.5	DX029	SE	2010-12-17	FIELD
SED	SED-003-SIV-SD-0.0-0.5	DX029	SE	2010-12-20	FIELD
SED	SED-004-SIV-SD-0.0-0.5	DX029	SE	2010-12-17	FIELD
SED	SED-005-SIV-SD-0.0-0.5	DX029	SE	2010-12-20	FIELD
SED	SED-006-SIV-SD-0.0-0.5	DX029	SE	2010-12-17	FIELD
SED	SED-007-SIV-SD-0.0-0.6	DX029	SE	2010-12-20	FIELD
SED	SED-008-SIV-SD-0.0-0.5	DX029	SE	2010-12-20	FIELD
SED	SED-012-SIV-SD-0.0-0.5	DX029	SE	2010-12-17	FIELD
SED	SED-014-SIV-SD-0.0-0.5	DX029	SE	2010-12-17	FIELD
SED	SED-034-SIV-SD-0.0-0.5	DX029	SE	2010-12-20	FIELD
SED	SED-037-SIV-SD-0.0-0.5	DX029	SE	2010-12-20	FIELD
SED	DUP02-SIV-QC-122110	DX033	SE	2010-12-21	FIELD
SED	SED-002-SIV-SD-0.0-0.5	DX033	SE	2010-12-21	FIELD
SED	SED-015-SIV-SD-0.0-0.5	DX033	SE	2010-12-21	FIELD
SED	SED-036-SIV-SD-0.0-0.5	DX033	SE	2010-12-21	FIELD
SED	SED-038-SIV-SD-0.0-0.5	DX033	SE	2010-12-21	FIELD
SED	SED-039-SIV-SD-0.0-0.5	DX033	SE	2010-12-21	FIELD
SED	SED-010-SIV-SD-0.0-0.5	DX034	SE	2010-12-22	FIELD
SED	SED-009-SIV-SD-0.0-0.5	DX038	SE	2011-01-13	FIELD
SED	SED-028-SIV-SD-0.0-0.5	DX038	SE	2011-01-13	FIELD
SED	SED-035-SIV-SD-0.0-0.5	DX087	SE	2011-05-23	FIELD

SAMPLE DELIVERY GROUP

DE036

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3050B	6010B	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3050B	6020	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3060A	7199	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8081A	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8082	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8151A	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8270C	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8270C SIM	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	Gen Prep	9045M	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	300.0	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	314.0	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	7471A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3050B	6010B	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3050B	6020	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3060A	7199	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8081A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8082	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8151A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8270C	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8270C SIM	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	Gen Prep	9045M	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	300.0	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	314.0	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	7471A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3050B	6010B	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	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
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3060A	7199	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8081A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8082	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8151A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8270C	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8270C SIM	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	Gen Prep	9045M	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	300.0	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	314.0	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	7471A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3050B	6010B	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3050B	6020	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3060A	7199	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8081A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8082	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8151A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8270C	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8270C SIM	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	Gen Prep	9045M	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	300.0	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	314.0	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	7471A	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3050B	6010B	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3050B	6020	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3060A	7199	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	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
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8082	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8151A	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8270C	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8270C SIM	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	Gen Prep	9045M	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	300.0	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	314.0	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	7471A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3050B	6010B	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3050B	6020	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3060A	7199	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8081A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8082	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8151A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8270C	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8270C SIM	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	Gen Prep	9045M	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	300.0	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	314.0	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8151A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	Gen Prep	9045M	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8151A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8151A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3050B	6010B	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
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	P163599	N	METHOD	6850	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	P163599M241911A	MSD	METHOD	6850	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	P163599R241905A	MS	METHOD	6850	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3050B	6010B	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3050B	6020	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3060A	7199	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8081A	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8082	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8151A	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8270C	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8270C SIM	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	Gen Prep	9045M	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	300.0	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	314.0	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	7471A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3050B	6010B	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3050B	6020	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3060A	7199	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8081A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8082	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8151A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8270C	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8270C SIM	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	Gen Prep	9045M	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	300.0	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	314.0	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	7471A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3050B	6010B	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3050B	6020	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3060A	7199	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8081A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8082	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8151A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8270C	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8270C SIM	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	Gen Prep	9045M	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	300.0	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	314.0	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	7471A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3050B	6010B	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3050B	6020	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3060A	7199	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8081A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8082	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8151A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8270C	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
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8270C SIM	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	Gen Prep	9045M	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	300.0	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	314.0	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	7471A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3050B	6010B	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3050B	6020	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3060A	7199	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8081A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8082	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8151A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8270C	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8270C SIM	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	Gen Prep	9045M	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	300.0	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	314.0	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	7471A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3050B	6010B	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3050B	6020	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3060A	7199	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8081A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8082	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8151A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8270C	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8270C SIM	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	Gen Prep	9045M	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	300.0	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	314.0	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	7471A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3050B	6010B	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3050B	6020	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3060A	7199	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8081A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8082	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8151A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8270C	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8270C SIM	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	Gen Prep	9045M	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	300.0	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	314.0	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	7471A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3050B	6010B	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3050B	6020	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3060A	7199	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8081A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8082	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8151A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8270C	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8270C SIM	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	Gen Prep	9045M	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	300.0	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	314.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	7471A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5DUP	P163610D271838B	DUP	METHOD	300.0	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5MS	P163610R271852B	MS	METHOD	300.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3050B	6010B	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3050B	6020	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3060A	7199	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8081A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8082	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8151A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8270C	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8270C SIM	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	Gen Prep	9045M	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	300.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	314.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	6850	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	7471A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5DUP	P163618D272230B	DUP	METHOD	314.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5DUP	P163618D291430B	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5MS	P163618R272254B	MS	METHOD	314.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3050B	6010B	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3050B	6020	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3060A	7199	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8081A	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8082	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8151A	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	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
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8270C SIM	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	Gen Prep	9045M	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	300.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	314.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	7471A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3050B	6010B	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3050B	6020	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3060A	7199	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8081A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8082	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8151A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8270C	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8270C SIM	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	Gen Prep	9045M	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	300.0	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	314.0	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	7471A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3050B	6010B	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3050B	6020	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3060A	7199	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8081A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8082	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8151A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8270C	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8270C SIM	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review *N = 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
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	300.0	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	314.0	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	7471A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3050B	6010B	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3050B	6020	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3060A	7199	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8081A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8082	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8151A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8270C	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8270C SIM	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	Gen Prep	9045M	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	300.0	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	314.0	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	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: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:48:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-073-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	J	0.84	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-074-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	11.8	J	9.6	MDL	31.8	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
SODIUM	102	J	39.6	MDL	106	PQL	mg/Kg	J	Z

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
TIN	2.42	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.10	J	0.893	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.8	J	39.7	MDL	106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.76	J	0.948	MDL	5.32	PQL	mg/Kg	J	Z
TIN	2.05	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.9	J	42.8	MDL	115	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.34	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.965	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	54.3	J	39.9	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.03	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.920	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	62.3	J	39.9	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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	5.27	J	0.952	MDL	5.35	PQL	mg/Kg	J	Z
TIN	1.82	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.05	J	0.898	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.15	J	0.931	MDL	5.23	PQL	mg/Kg	J	Z
TIN	2.40	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	98.9	J	37.5	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.01	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.32	J	0.845	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.5	J	37.7	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.90	J	0.899	MDL	5.05	PQL	mg/Kg	J	Z
TIN	2.03	J	1.01	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.848	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.88	J	0.923	MDL	5.19	PQL	mg/Kg	J	Z
TIN	2.34	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.78	J	0.936	MDL	5.26	PQL	mg/Kg	J	Z
TIN	2.39	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	3.77	J	0.944	MDL	5.30	PQL	mg/Kg	J	Z
TIN	2.09	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.891	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	95.9	J	38.5	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.46	J	0.919	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.24	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.82	J	0.868	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.4	J	40.4	MDL	108	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.91	J	0.964	MDL	5.42	PQL	mg/Kg	J	Z
TIN	2.45	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	71.0	J	38.4	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.98	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.43	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.05	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.937	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
TIN	2.33	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	5.02	J	0.918	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.72	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.64	J	0.938	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.25	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.19	J	0.884	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.44	J	0.947	MDL	5.32	PQL	mg/Kg	J	Z
TIN	3.24	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.67	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.750		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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	0.136	J	0.0625	MDL	0.208	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	7.83		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.771		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.382		0.0375	MDL	0.104	PQL	mg/Kg	J	Q, FD
CHROMIUM	28.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
COBALT	9.00		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	15.1		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	11.3		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	17.1		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	1.22		0.0125	MDL	0.104	PQL	mg/Kg	J	Q, FD

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.117	MDL	0.434	PQL	mg/Kg	J	E, A

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.191	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.15		0.0651	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.463		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.902		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.0		0.130	MDL	0.434	PQL	mg/Kg	J	Q
COBALT	6.94		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	17.8		0.0717	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	50.6		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.109	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.147		0.0130	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0478	MDL	0.478	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.876		0.0597	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.129	MDL	0.478	PQL	mg/Kg	J	E, A

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0717	MDL	0.239	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	7.83		0.0717	MDL	0.478	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.785		0.0191	MDL	0.119	PQL	mg/Kg	J	Q, E
CADMIUM	0.461		0.0430	MDL	0.119	PQL	mg/Kg	J	Q
CHROMIUM	33.4		0.143	MDL	0.478	PQL	mg/Kg	J	Q
COBALT	9.86		0.0239	MDL	0.119	PQL	mg/Kg	J	Q, E
COPPER	18.1		0.0789	MDL	0.478	PQL	mg/Kg	J	Q, E
LEAD	19.8		0.0124	MDL	0.239	PQL	mg/Kg	J	Q, E
NICKEL	22.2		0.119	MDL	0.478	PQL	mg/Kg	J	Q, E
SILVER	0.0806	J	0.0143	MDL	0.119	PQL	mg/Kg	J	Z, Q

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.584		0.0550	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.119	MDL	0.440	PQL	mg/Kg	J	E, A

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0660	U	0.0660	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	5.90		0.0660	MDL	0.440	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.546		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.255		0.0396	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.132	MDL	0.440	PQL	mg/Kg	J	Q
COBALT	7.18		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	12.7		0.0726	MDL	0.440	PQL	mg/Kg	J	Q, E
LEAD	20.2		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E
SILVER	0.0557	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
CADMIUM	0.192		0.0393	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.471		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.118	MDL	0.436	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-040-SIV-SD-0.0-0.5 **Collected:** 12/13/2010 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	0.0654	U	0.0654	MDL	0.218	PQL	mg/Kg	R	Q
ARSENIC	4.31		0.0654	MDL	0.436	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.503		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	20.5		0.131	MDL	0.436	PQL	mg/Kg	J	Q
COBALT	6.78		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	9.21		0.0720	MDL	0.436	PQL	mg/Kg	J	Q, E
LEAD	10.8		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	13.0		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E
SILVER	0.0217	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0935	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.114	MDL	0.423	PQL	mg/Kg	J	E, A

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0634	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.17		0.0634	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.693		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.210		0.0380	MDL	0.106	PQL	mg/Kg	J	Q, FD
CHROMIUM	25.5		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	7.36		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.9		0.0697	MDL	0.423	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.18		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E
SILVER	0.241		0.0127	MDL	0.106	PQL	mg/Kg	J	Q, FD

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0406	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.110	MDL	0.406	PQL	mg/Kg	J	E, A

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0917	J	0.0609	MDL	0.203	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.07		0.0609	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.676		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.411		0.0366	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	7.26		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	12.6		0.0670	MDL	0.406	PQL	mg/Kg	J	Q, E
LEAD	13.0		0.0106	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	14.5		0.102	MDL	0.406	PQL	mg/Kg	J	Q, E
SILVER	3.17		0.0122	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.956		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	153		0.111	MDL	0.412	PQL	mg/Kg	J	E, A

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.02		0.0618	MDL	0.412	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.291		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.2		0.124	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	7.93		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	14.5		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E
LEAD	11.2		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	17.9		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E
SILVER	0.298		0.0124	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.315	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.725		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.116	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.0647	U	0.0647	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	6.82		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.723		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.305		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	29.6		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	7.36		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	16.8		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	17.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.405		0.0129	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.504		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.115	MDL	0.425	PQL	mg/Kg	J	E, A

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0842	J	0.0638	MDL	0.213	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.92		0.0638	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.634		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.211		0.0383	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	31.1		0.128	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	8.21		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	15.5		0.0701	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	7.96		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	19.7		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0363	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z, Q

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
MOLYBDENUM	0.657		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.117	MDL	0.432	PQL	mg/Kg	J	E, A

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.149	J	0.0649	MDL	0.216	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.22		0.0649	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.754		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.865		0.0389	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.130	MDL	0.432	PQL	mg/Kg	J	Q
COBALT	11.3		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	18.9		0.0713	MDL	0.432	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Laboratory: LL

Lab Reporting Batch ID: DE036

eQAPP Name: CDM_SSFL_110509

EDD Filename: DE036_v1

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	17.7		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	21.0		0.108	MDL	0.432	PQL	mg/Kg	J	Q, E
SILVER	1.65		0.0130	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.958		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	172		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.249		0.0632	MDL	0.211	PQL	mg/Kg	J	Q, Q, E
ARSENIC	10.2		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	1.69		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	41.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	10.0		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	25.9		0.0695	MDL	0.421	PQL	mg/Kg	J	Q, E
LEAD	77.7		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	23.0		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.243		0.0126	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.203	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.552		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0656	U	0.0656	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	5.67		0.0656	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.588		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.244		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.6		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	6.96		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	12.2		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	7.40		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	13.9		0.109	MDL	0.438	PQL	mg/Kg	J	Q, E
SILVER	0.0361	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.902		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.114	MDL	0.420	PQL	mg/Kg	J	E, A

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0631	U	0.0631	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	5.85		0.0631	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.729		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.287		0.0378	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.9		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	7.16		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0694	MDL	0.420	PQL	mg/Kg	J	Q, E
LEAD	9.17		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E
NICKEL	13.9		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0435	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	11.2		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* REA4 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.287	MDL	1.06	PQL	mg/Kg	J	E, A

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.297		0.0637	MDL	0.212	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.50		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.654		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.664		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	38.6		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	7.96		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	34.0		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0831	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.320	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.606		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0680	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	8.56		0.0669	MDL	0.446	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.867		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.285		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	43.1		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	12.3		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	12.7		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	23.3		0.111	MDL	0.446	PQL	mg/Kg	J	Q, E
SILVER	0.0392	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.273	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.455		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0708	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	8.89		0.0669	MDL	0.446	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.976		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.252		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	45.8		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	14.0		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, E
LEAD	13.6		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	23.7		0.111	MDL	0.446	PQL	mg/Kg	J	Q, E
SILVER	0.0321	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0657	U	0.0657	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.15		0.0657	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.869		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.200		0.0394	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	30.4		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	8.20		0.0219	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	13.1		0.0723	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	9.99		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	18.1		0.110	MDL	0.438	PQL	mg/Kg	J	Q, E
SILVER	0.0876	J	0.0131	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0625	MDL	0.208	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	5.85		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.538		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.377		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	27.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q
COBALT	8.08		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	14.7		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	10.6		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	16.9		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0265	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
MOLYBDENUM	0.834		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.114	MDL	0.422	PQL	mg/Kg	J	E, A

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.120	J	0.0633	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	8.79		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.915		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.902		0.0380	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	9.42		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	24.2		0.0696	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	15.3		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	24.4		0.105	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	3.63		0.0127	MDL	0.105	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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	0.76	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-072-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:48:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	0.86	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.91	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 2:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0380	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *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	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0049	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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	0.0039	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0873	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-073-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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
MERCURY	0.0204	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0066	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	0.0142	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0414	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0086	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0341	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

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

Method Category: SVOA
Method: 8081A **Matrix:** SO

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.29	J	0.19	MDL	0.92	PQL	ug/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.24	U	0.24	MDL	0.36	PQL	ug/Kg	R	Q
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.74	J	0.33	MDL	0.90	PQL	ug/Kg	J	Z

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

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1254	2.1		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	3.9		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.6	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	37	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	37	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	170		11	MDL	37	PQL	ug/Kg	J	L

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	2.4	U	2.4	MDL	7.9	PQL	ug/Kg	UJ	L
Aroclor 5442	2.4	U	2.4	MDL	7.9	PQL	ug/Kg	UJ	L
Aroclor 5460	6.7	J	2.4	MDL	7.9	PQL	ug/Kg	J	Z, L

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	8.4	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z
AROCLOR 1260	5.3	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z
Aroclor 5432	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	9.3	J	5.6	MDL	18	PQL	ug/Kg	J	Z, L

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	4.2		1.1	MDL	3.6	PQL	ug/Kg	J	L

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	6.7		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1254	13		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	8.5		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.3		1.1	MDL	3.5	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.8		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	22		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	27		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	4.5	J	1.8	MDL	9.3	PQL	ug/Kg	J	Z
AROCLOR 1254	4.8	J	1.8	MDL	9.3	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	8.9	J	5.4	MDL	18	PQL	ug/Kg	J	Z, L

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES *Dilution:* 1000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L
Aroclor 5442	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L
Aroclor 5460	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	5.2		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1254	3.6		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.7	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	6.6	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	6.6	J	5.4	MDL	18	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	57	U	57	MDL	190	PQL	ug/Kg	UJ	L
Aroclor 5442	57	U	57	MDL	190	PQL	ug/Kg	UJ	L
Aroclor 5460	57	U	57	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5460	110		11	MDL	36	PQL	ug/Kg	J	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *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	0.33		0.091	MDL	0.19	PQL	ug/Kg	J	S
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	3.0	J	1.4	MDL	4.3	PQL	ug/Kg	J	Z
DICAMBA	0.78	J	0.48	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.69	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.4	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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-D	1.9	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	230	J	83	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	130	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	4.3	U	4.3	MDL	13	PQL	ug/Kg	R	L

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L
MCPA	250	J	83	MDL	270	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.088	J	0.088	MDL	0.18	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.45	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 ***Collected:*** 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	30	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	60	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	18	MDL	350	PQL	ug/Kg	J	Z, FD
CHRYSENE	46	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	64	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	70	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 11:52:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	110	J	18	MDL	370	PQL	ug/Kg	J	Z
Butylbenzylphthalate	31	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 11:13:00 ***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	120	U	120	MDL	400	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 9:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	19	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	18	U	18	MDL	360	PQL	ug/Kg	UJ	FD

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *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	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	39	J	18	MDL	350	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	41	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	18	MDL	350	PQL	ug/Kg	J	Z
PYRENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *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	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	25	J	18	MDL	360	PQL	ug/Kg	J	Z
FLUORANTHENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	330	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *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	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	26	J	18	MDL	370	PQL	ug/Kg	J	Z
PYRENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD
2-METHYLNAPHTHALENE	0.87	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.75	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
ANTHRACENE	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	2.6		0.71	MDL	1.8	PQL	ug/Kg	J	FD
Di-n-butylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.4	J	3.7	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	9.6	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	9.6	J	7.4	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	97	J	66	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *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	1.6	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.3	J	7.2	MDL	22	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.83	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	0.89	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.43	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
ANTHRACENE	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-071-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 10:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
2-METHYLNAPHTHALENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	18		0.36	MDL	1.8	PQL	ug/Kg	J	Q, FD
ANTHRACENE	6.9		0.36	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)ANTHRACENE	73		0.71	MDL	1.8	PQL	ug/Kg	J	Q
BENZO(K)FLUORANTHENE	91		0.71	MDL	1.8	PQL	ug/Kg	J	Q
DIBENZO(A,H)ANTHRACENE	55		0.71	MDL	1.8	PQL	ug/Kg	J	Q, FD
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD
NAPHTHALENE	3.3		0.71	MDL	1.8	PQL	ug/Kg	J	FD
PHENANTHRENE	54		0.71	MDL	1.8	PQL	ug/Kg	J	Q
PYRENE	85		0.71	MDL	1.8	PQL	ug/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:48:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.62	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:30:00 ***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(A)ANTHRACENE	13	J	7.0	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	16	J	7.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	12	J	7.0	MDL	18	PQL	ug/Kg	J	Z
PYRENE	17	J	7.0	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.58	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.0	J	6.5	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
NAPHTHALENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *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(A)ANTHRACENE	9.7	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	11	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	16	J	7.4	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	17	J	3.7	MDL	18	PQL	ug/Kg	J	Z
FLUORANTHENE	16	J	7.4	MDL	18	PQL	ug/Kg	J	Z
PYRENE	13	J	7.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *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	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.78	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.45	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *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	0.78	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
BENZO(A)PYRENE	0.88	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.96	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.91	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *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	0.89	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.96	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.40	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.6	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE036

Method Blank Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108DB222357	12/20/2010 11:57:00 PM	ALUMINUM CALCIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 12.8 mg/Kg 1.08 mg/Kg 0.0650 mg/Kg 1.20 mg/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5
P35408EB221919	12/21/2010 7:19:00 PM	ALUMINUM CALCIUM PHOSPHORUS TIN	5.43 mg/Kg 12.3 mg/Kg 1.70 mg/Kg 1.37 mg/Kg	SL-236-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP04-SA5B-QC-121310(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SED-029-SIV-SD-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SED-030-SIV-SD-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SED-031-SIV-SD-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SED-040-SIV-SD-0.0-0.5(RES)	TIN	1.82 mg/Kg	1.82U mg/Kg
SL-071-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-072-SA5B-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-073-SA5B-SS-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SL-074-SA5B-SS-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-076-SA5B-SS-0.0-0.5(RES)	TIN	2.39 mg/Kg	2.39U mg/Kg
SL-078-SA5B-SS-0.0-0.5(RES)	TIN	2.09 mg/Kg	2.09U mg/Kg
SL-083-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-084-SA5B-SS-0.0-0.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-089-SA5B-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-092-SA5B-SS-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-103-SA5B-SS-0.0-0.5(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-139-SA5B-SS-0.0-0.5(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-236-SA5B-SS-0.0-0.5(REA3)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-301-SA5B-SS-0.0-0.5(RES)	TIN	3.24 mg/Kg	3.24U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126BB220903A	12/26/2010 9:03:00 AM	COPPER	0.242 mg/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BlankB241840A	12/21/2010 6:40:00 PM	PERCHLORATE	7.0 ug/Kg	SL-071-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH35B261033	12/23/2010 10:33:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	8.2 ug/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS (SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	FLUORIDE	78	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	4,4'-DDT ALDRIN	- 132	245 -	10.00-176.00 16.00-126.00	- -	4,4'-DDT ALDRIN	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	DIELDRIN ENDRIN HEPTACHLOR	0 0 0	- - -	19.00-154.00 11.00-149.00 13.00-126.00	200 (50.00) 200 (50.00) 200 (50.00)	DIELDRIN ENDRIN HEPTACHLOR	J(all detects) R(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-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	2,4,5-T 2,4-DB DICAMBA	- - 154	- - 127	25.00-132.00 20.00-170.00 33.00-120.00	68 (35.00) 62 (50.00) -	2,4,5-T 2,4-DB DICAMBA	J(all detects)
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	DALAPON	-	0	12.00-86.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL BENZOIC ACID	- -	- -	20.00-143.00 10.00-173.00	47 (30.00) 31 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	BENZIDINE	16	20	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	BENZO(A)ANTHRACENE	-87	-90	39.00-144.00	-	BENZO(A)ANTHRACENE	J(all detects) R(all non-detects)
	BENZO(A)PYRENE	-461	-441	34.00-156.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-1536	-1472	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-401	-387	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-148	-137	42.00-144.00	-	BENZO(K)FLUORANTHENE	Fluoranthene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(123-cd)pyrene, Benzo(ghi)perylene No Qual, >4x
	CHRYSENE	-1058	-999	29.00-156.00	-	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-49	-47	41.00-130.00	-	DIBENZO(A,H)ANTHRACENE	
	FLUORANTHENE	-326	-323	26.00-166.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-643	-617	21.00-143.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-43	-40	12.00-165.00	-	PHENANTHRENE	
	PYRENE	-111	-113	15.00-153.00	-	PYRENE	
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	ACENAPHTHYLENE	49	52	55.00-126.00	-	ACENAPHTHYLENE	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-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	ARSENIC	188	166	75.00-125.00	-	ARSENIC	
	BERYLLIUM	146	142	75.00-125.00	-	BERYLLIUM	
	CADMIUM	133	139	75.00-125.00	-	CADMIUM	
	CHROMIUM	160	157	75.00-125.00	-	CHROMIUM	
	COBALT	127	126	75.00-125.00	-	COBALT	
	COPPER	138	151	75.00-125.00	-	COPPER	
	LEAD	179	193	75.00-125.00	-	LEAD	
	NICKEL	136	143	75.00-125.00	-	NICKEL	
	SILVER	-	129	75.00-125.00	-	SILVER	
	VANADIUM	204	201	75.00-125.00	-	VANADIUM	
	ZINC	222	321	75.00-125.00	-	ZINC	J(all detects) V, Zn No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS **SL-071-SA5B-SS-0.0-0.5MSD** (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	ANTIMONY	40	20	75.00-125.00	56 (20.00)	ANTIMONY	J(all detects) R(all non-detects)
SL-071-SA5B-SS-0.0-0.5MS **SL-071-SA5B-SS-0.0-0.5MSD** (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	MOLYBDENUM	134	134	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS **SL-071-SA5B-SS-0.0-0.5MSD** (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	BARIUM	313	247	75.00-125.00	-	BARIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS	ALUMINUM	1507	1477	75.00-125.00	-	ALUMINUM	
SL-071-SA5B-SS-0.0-0.5MSD	CALCIUM	167	189	75.00-125.00	-	CALCIUM	
(DUP04-SA5B-QC-121310	IRON	1042	1161	75.00-125.00	-	IRON	
SED-029-SIV-SD-0.0-0.5	MAGNESIUM	265	220	75.00-125.00	-	MAGNESIUM	
SED-030-SIV-SD-0.0-0.5	MANGANESE	149	139	75.00-125.00	-	MANGANESE	
SED-031-SIV-SD-0.0-0.5							
SED-040-SIV-SD-0.0-0.5							
SL-071-SA5B-SS-0.0-0.5							
SL-072-SA5B-SS-0.0-0.5							
SL-073-SA5B-SS-0.0-0.5							
SL-074-SA5B-SS-0.0-0.5							No Qual, >4x
SL-076-SA5B-SS-0.0-0.5							
SL-078-SA5B-SS-0.0-0.5							
SL-083-SA5B-SS-0.0-0.5							
SL-084-SA5B-SS-0.0-0.5							
SL-086-SA5B-SS-0.0-0.5							
SL-089-SA5B-SS-0.0-0.5							
SL-092-SA5B-SS-0.0-0.5							
SL-103-SA5B-SS-0.0-0.5							
SL-139-SA5B-SS-0.0-0.5							
SL-301-SA5B-SS-0.0-0.5)							
SL-071-SA5B-SS-0.0-0.5MS	TITANIUM	445	352	75.00-125.00	-	TITANIUM	
SL-071-SA5B-SS-0.0-0.5MSD							
(DUP04-SA5B-QC-121310							
SED-029-SIV-SD-0.0-0.5							
SED-030-SIV-SD-0.0-0.5							
SED-031-SIV-SD-0.0-0.5							
SED-040-SIV-SD-0.0-0.5							
SL-071-SA5B-SS-0.0-0.5							
SL-072-SA5B-SS-0.0-0.5							
SL-073-SA5B-SS-0.0-0.5							
SL-074-SA5B-SS-0.0-0.5							No Qual, >4x
SL-076-SA5B-SS-0.0-0.5							
SL-078-SA5B-SS-0.0-0.5							
SL-083-SA5B-SS-0.0-0.5							
SL-084-SA5B-SS-0.0-0.5							
SL-086-SA5B-SS-0.0-0.5							
SL-089-SA5B-SS-0.0-0.5							
SL-092-SA5B-SS-0.0-0.5							
SL-103-SA5B-SS-0.0-0.5							
SL-139-SA5B-SS-0.0-0.5							
SL-301-SA5B-SS-0.0-0.5)							

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (SL-071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	FLUORIDE	24	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	Zirconium	52	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP	ANTIMONY	200	20.00	
(DUP04-SA5B-QC-121310	ARSENIC	23	20.00	
SED -029-SIV-SD-0.0-0.5	BARIUM	28	20.00	
SED -030-SIV-SD-0.0-0.5	BERYLLIUM	43	20.00	
SED -031-SIV-SD-0.0-0.5	CADMIUM	25	20.00	
SED -040-SIV-SD-0.0-0.5	COBALT	22	20.00	
SL -071-SA5B-SS-0.0-0.5	COPPER	33	20.00	
SL -072-SA5B-SS-0.0-0.5	LEAD	37	20.00	
SL -073-SA5B-SS-0.0-0.5	NICKEL	31	20.00	
SL -074-SA5B-SS-0.0-0.5	SILVER	47	20.00	
SL -076-SA5B-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL -078-SA5B-SS-0.0-0.5				
SL -083-SA5B-SS-0.0-0.5				Sb, Cd, Ag
SL -084-SA5B-SS-0.0-0.5				No Qual
SL -086-SA5B-SS-0.0-0.5				OK by difference
SL -089-SA5B-SS-0.0-0.5				
SL -092-SA5B-SS-0.0-0.5				
SL -103-SA5B-SS-0.0-0.5				
SL -139-SA5B-SS-0.0-0.5				
SL -236-SA5B-SS-0.0-0.5				
SL -301-SA5B-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP	HEXAVALENT CHROMIUM	200	20.00	
(DUP04-SA5B-QC-121310				
SED -029-SIV-SD-0.0-0.5				
SED -030-SIV-SD-0.0-0.5				
SED -031-SIV-SD-0.0-0.5				
SED -040-SIV-SD-0.0-0.5				
SL -071-SA5B-SS-0.0-0.5				
SL -072-SA5B-SS-0.0-0.5				
SL -073-SA5B-SS-0.0-0.5				
SL -074-SA5B-SS-0.0-0.5				No Qual
SL -076-SA5B-SS-0.0-0.5				OK by difference
SL -078-SA5B-SS-0.0-0.5				
SL -083-SA5B-SS-0.0-0.5				
SL -084-SA5B-SS-0.0-0.5				
SL -086-SA5B-SS-0.0-0.5				
SL -089-SA5B-SS-0.0-0.5				
SL -092-SA5B-SS-0.0-0.5				
SL -103-SA5B-SS-0.0-0.5				
SL -139-SA5B-SS-0.0-0.5				
SL -236-SA5B-SS-0.0-0.5				
SL -301-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSQ241847A (SL-071-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5)	PERCHLORATE	120	-	85.00-115.00	-	PERCHLORATE	J (all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03510AQ240131A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	METHOXYCHLOR	130	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03511AY241835A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	Aroclor 5442	-	74	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_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
P03557AQ241952A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B -SS-0.0-0.5 SL -072-SA5B -SS-0.0-0.5 SL -073-SA5B -SS-0.0-0.5 SL -074-SA5B -SS-0.0-0.5 SL -076-SA5B -SS-0.0-0.5 SL -078-SA5B -SS-0.0-0.5 SL -083-SA5B -SS-0.0-0.5 SL -084-SA5B -SS-0.0-0.5 SL -086-SA5B -SS-0.0-0.5 SL -089-SA5B -SS-0.0-0.5 SL -092-SA5B -SS-0.0-0.5 SL -103-SA5B -SS-0.0-0.5 SL -139-SA5B -SS-0.0-0.5 SL -236-SA5B -SS-0.0-0.5 SL -301-SA5B -SS-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LGLCSQ261059 (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B -SS-0.0-0.5 SL -072-SA5B -SS-0.0-0.5 SL -073-SA5B -SS-0.0-0.5 SL -074-SA5B -SS-0.0-0.5 SL -076-SA5B -SS-0.0-0.5 SL -078-SA5B -SS-0.0-0.5 SL -083-SA5B -SS-0.0-0.5 SL -084-SA5B -SS-0.0-0.5 SL -086-SA5B -SS-0.0-0.5 SL -089-SA5B -SS-0.0-0.5 SL -092-SA5B -SS-0.0-0.5 SL -103-SA5B -SS-0.0-0.5 SL -139-SA5B -SS-0.0-0.5 SL -236-SA5B -SS-0.0-0.5 SL -301-SA5B -SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	31	-	38.00-105.00	-	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_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*
P35126BQ220906A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B -SS-0.0-0.5 SL -072-SA5B -SS-0.0-0.5 SL -073-SA5B -SS-0.0-0.5 SL -074-SA5B -SS-0.0-0.5 SL -076-SA5B -SS-0.0-0.5 SL -078-SA5B -SS-0.0-0.5 SL -083-SA5B -SS-0.0-0.5 SL -084-SA5B -SS-0.0-0.5 SL -086-SA5B -SS-0.0-0.5 SL -089-SA5B -SS-0.0-0.5 SL -092-SA5B -SS-0.0-0.5 SL -103-SA5B -SS-0.0-0.5 SL -139-SA5B -SS-0.0-0.5 SL -236-SA5B -SS-0.0-0.5 SL -301-SA5B -SS-0.0-0.5)	ANTIMONY	55	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-139-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	251	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
SED-031-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	139	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-072-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-074-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	131	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-086-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-089-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	160	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-103-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-236-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	138	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-301-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	152	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-029-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	173	36.00-156.00	All Target Analytes	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MOISTURE	6.3	5.9	7		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
FLUORIDE	3.4	4.3	23	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
ALUMINUM	14400	14200	1	50.00	
BORON	4.15	5.32	25	50.00	
CALCIUM	2980	3040	2	50.00	
IRON	20700	20900	1	50.00	
LITHIUM	23.9	23.4	2	50.00	
MAGNESIUM	4490	4460	1	50.00	
MANGANESE	248	248	0	50.00	
PHOSPHORUS	377	394	4	50.00	No Qualifiers Applied
POTASSIUM	2680	2580	4	50.00	
SODIUM	109	102	7	50.00	
STRONTIUM	16.7	17.2	3	50.00	
TIN	2.40	2.42	1	50.00	
TITANIUM	1130	1150	2	50.00	
Zirconium	1.01	1.10	9	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
ANTIMONY	0.102	0.136	29	50.00	
ARSENIC	6.17	7.83	24	50.00	
BARIUM	120	135	12	50.00	
BERYLLIUM	0.693	0.771	11	50.00	
CHROMIUM	25.5	28.8	12	50.00	
COBALT	7.36	9.00	20	50.00	
COPPER	11.9	15.1	24	50.00	
LEAD	9.18	11.3	21	50.00	No Qualifiers Applied
MOLYBDENUM	0.620	0.750	19	50.00	
NICKEL	14.8	17.1	14	50.00	
SELENIUM	0.0935	0.152	48	50.00	
THALLIUM	0.356	0.324	9	50.00	
VANADIUM	44.9	50.3	11	50.00	
ZINC	98.5	128	26	50.00	
CADMIUM	0.210	0.382	58	50.00	J(all detects)
SILVER	0.241	1.22	134	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
HEXAVALENT CHROMIUM	1.1 U	0.76	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MERCURY	0.334	0.227	38	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
Aroclor 5460	4.3	2.6	49	50.00	No Qualifiers Applied
AROCLOR 1248	6.7	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1254	13	2.1	144	50.00	
AROCLOR 1260	8.5	3.9	74	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
2-METHYLNAPHTHALENE	0.74	0.87	16	50.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	1.8 U	0.74	200	50.00	J(all detects) UJ(all non-detects)
ACENAPHTHYLENE	18	0.75	184	50.00	
ANTHRACENE	6.9	1.6	125	50.00	
DIBENZO(A,H)ANTHRACENE	55	2.6	182	50.00	
Di-n-butylphthalate	19 U	6.7	200	50.00	
NAPHTHALENE	3.3	1.1	100	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	29	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
PH	7.67	7.34	4	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
Oxidation Reduction Potential	462	454	2		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5B-SS-0.0-0.5	FLUORIDE	J	0.87	1.1	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA5B-SS-0.0-0.5	PERCHLORATE	J	11.8	31.8	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	SODIUM	J	102	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.42	10.6	PQL	mg/Kg	
	Zirconium	J	1.10	5.31	PQL	mg/Kg	
SED-029-SIV-SD-0.0-0.5	BORON	J	4.76	5.32	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.8	106	PQL	mg/Kg	
	TIN	J	2.05	10.6	PQL	mg/Kg	
SED-030-SIV-SD-0.0-0.5	SODIUM	J	78.9	115	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	11.5	PQL	mg/Kg	
	Zirconium	J	1.44	5.74	PQL	mg/Kg	
SED-031-SIV-SD-0.0-0.5	SODIUM	J	54.3	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.03	10.7	PQL	mg/Kg	
	Zirconium	J	0.920	5.34	PQL	mg/Kg	
SED-040-SIV-SD-0.0-0.5	BORON	J	5.27	5.35	PQL	mg/Kg	J (all detects)
	SODIUM	J	62.3	107	PQL	mg/Kg	
	TIN	J	1.82	10.7	PQL	mg/Kg	
	Zirconium	J	1.05	5.35	PQL	mg/Kg	
SL-071-SA5B-SS-0.0-0.5	BORON	J	4.15	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	10.5	PQL	mg/Kg	
	Zirconium	J	1.01	5.23	PQL	mg/Kg	
SL-072-SA5B-SS-0.0-0.5	SODIUM	J	98.9	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.20	10.1	PQL	mg/Kg	
	Zirconium	J	1.32	5.03	PQL	mg/Kg	
SL-073-SA5B-SS-0.0-0.5	BORON	J	4.90	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.5	101	PQL	mg/Kg	
	TIN	J	2.03	10.1	PQL	mg/Kg	
	Zirconium	J	1.75	5.05	PQL	mg/Kg	
SL-074-SA5B-SS-0.0-0.5	BORON	J	4.88	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.4	PQL	mg/Kg	
	Zirconium	J	1.49	5.19	PQL	mg/Kg	
SL-076-SA5B-SS-0.0-0.5	BORON	J	2.78	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.39	10.5	PQL	mg/Kg	
SL-078-SA5B-SS-0.0-0.5	BORON	J	3.77	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.09	10.6	PQL	mg/Kg	
	Zirconium	J	1.26	5.30	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA5B-SS-0.0-0.5	BORON	J	4.46	5.16	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.9	103	PQL	mg/Kg	
	TIN	J	2.24	10.3	PQL	mg/Kg	
	Zirconium	J	1.82	5.16	PQL	mg/Kg	
SL-084-SA5B-SS-0.0-0.5	BORON	J	3.91	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.4	108	PQL	mg/Kg	
	TIN	J	2.45	10.8	PQL	mg/Kg	
	Zirconium	J	1.39	5.42	PQL	mg/Kg	
SL-086-SA5B-SS-0.0-0.5	SODIUM	J	71.0	103	PQL	mg/Kg	J (all detects)
	TIN	J	1.98	10.3	PQL	mg/Kg	
	Zirconium	J	1.95	5.15	PQL	mg/Kg	
SL-089-SA5B-SS-0.0-0.5	TIN	J	2.20	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.43	5.20	PQL	mg/Kg	
SL-092-SA5B-SS-0.0-0.5	TIN	J	2.05	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.57	PQL	mg/Kg	
SL-103-SA5B-SS-0.0-0.5	TIN	J	2.33	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.02	5.47	PQL	mg/Kg	
SL-139-SA5B-SS-0.0-0.5	TIN	J	2.72	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.64	5.58	PQL	mg/Kg	
SL-236-SA5B-SS-0.0-0.5	TIN	J	2.25	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.19	5.26	PQL	mg/Kg	
SL-301-SA5B-SS-0.0-0.5	BORON	J	4.44	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	3.24	10.6	PQL	mg/Kg	
	Zirconium	J	1.67	5.32	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	ANTIMONY	J	0.136	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.152	0.417	PQL	mg/Kg	
SED-029-SIV-SD-0.0-0.5	ANTIMONY	J	0.191	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.434	PQL	mg/Kg	
SED-030-SIV-SD-0.0-0.5	ANTIMONY	J	0.115	0.239	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.209	0.478	PQL	mg/Kg	
	SILVER	J	0.0806	0.119	PQL	mg/Kg	
SED-031-SIV-SD-0.0-0.5	SELENIUM	J	0.151	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0557	0.110	PQL	mg/Kg	
SED-040-SIV-SD-0.0-0.5	SELENIUM	J	0.129	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0217	0.109	PQL	mg/Kg	
SL-071-SA5B-SS-0.0-0.5	ANTIMONY	J	0.102	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0935	0.423	PQL	mg/Kg	
SL-072-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0917	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.406	PQL	mg/Kg	
SL-073-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0768	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.412	PQL	mg/Kg	
SL-074-SA5B-SS-0.0-0.5	SELENIUM	J	0.315	0.431	PQL	mg/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0842	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.425	PQL	mg/Kg	
	SILVER	J	0.0363	0.106	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J J	0.149 0.179	0.216 0.432	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	SELENIUM	J	0.176	0.421	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.203 0.0361	0.438 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.140 0.0435	0.420 0.105	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.123 0.0831	0.424 0.106	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-092-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.0680 0.320 0.0392	0.223 0.446 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-103-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.0708 0.273 0.0321	0.223 0.446 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-139-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.152 0.0876	0.438 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.152 0.160 0.0265	0.208 0.417 0.104	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-301-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J J	0.120 0.164	0.211 0.422	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.2	PQL	mg/Kg	J (all detects)
SED-040-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.91	1.1	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-092-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-139-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-029-SIV-SD-0.0-0.5	MERCURY	J	0.0380	0.110	PQL	mg/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	MERCURY	J	0.0222	0.113	PQL	mg/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	MERCURY	J	0.0049	0.105	PQL	mg/Kg	J (all detects)
SED-040-SIV-SD-0.0-0.5	MERCURY	J	0.0039	0.107	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	MERCURY	J	0.0873	0.100	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SS-0.0-0.5	MERCURY	J	0.0132	0.0993	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	MERCURY	J	0.0204	0.104	PQL	mg/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	MERCURY	J	0.0066	0.101	PQL	mg/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	MERCURY	J	0.0142	0.108	PQL	mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	MERCURY	J	0.0414	0.101	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	MERCURY	J	0.0086	0.106	PQL	mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	MERCURY	J	0.0098	0.101	PQL	mg/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	MERCURY	J	0.0341	0.0993	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-029-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.29	0.92	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	BETA-BHC	J	0.74	0.90	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	Aroclor 5460	J	2.6	3.5	PQL	ug/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	Aroclor 5460	J	6.7	7.9	PQL	ug/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	8.4 5.3 9.3	9.4 9.4 18	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	AROCLOR 1248 AROCLOR 1254 Aroclor 5460	J J J	4.5 4.8 8.9	9.3 9.3 18	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	1.7 1.1	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.7 1.7	1.8 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	6.6 6.6	9.1 18	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-030-SIV-SD-0.0-0.5	2,4-D	J	3.0	4.3	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.78	1.4	PQL	ug/Kg	
SED-031-SIV-SD-0.0-0.5	DICAMBA	J	0.69	1.3	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	2,4-D	J	1.4	3.8	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	2,4-D	J	1.9	3.9	PQL	ug/Kg	J (all detects)
	MCPA	J	230	270	PQL	ug/Kg	
SL-076-SA5B-SS-0.0-0.5	MCPP	J	130	270	PQL	ug/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	MCPA	J	250	270	PQL	ug/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	2,4,5-T	J	0.088	0.18	PQL	ug/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	DICAMBA	J	0.45	1.3	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	BENZO(A)ANTHRACENE	J	30	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	33	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	60	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	33	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	24	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	350	PQL	ug/Kg	
	CHRYSENE	J	46	180	PQL	ug/Kg	
	FLUORANTHENE	J	64	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	27	180	PQL	ug/Kg	
	PHENANTHRENE	J	23	180	PQL	ug/Kg	
	PYRENE	J	70	180	PQL	ug/Kg	
SED-029-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	110	370	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	31	180	PQL	ug/Kg	
SED-030-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	400	PQL	ug/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	370	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	350	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	20	180	PQL	ug/Kg	
	PYRENE	J	25	180	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	41	360	PQL	ug/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	350	PQL	ug/Kg	J (all detects)
	PYRENE	J	18	180	PQL	ug/Kg	
SL-084-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	25	360	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	22	180	PQL	ug/Kg	
	PYRENE	J	23	180	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	330	360	PQL	ug/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	350	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	22	180	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	29	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	370	PQL	ug/Kg	
	PYRENE	J	21	180	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	1-METHYLNAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.87	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.75	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SED-029-SIV-SD-0.0-0.5	ANTHRACENE	J	4.4	18	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	9.6	18	PQL	ug/Kg	
	BENZO(A)PYRENE	J	9.6	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	97	200	PQL	ug/Kg	
SED-030-SIV-SD-0.0-0.5	CHRYSENE	J	1.6	2.0	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.3	22	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.83	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	0.89	2.0	PQL	ug/Kg	
	PYRENE	J	1.2	2.0	PQL	ug/Kg	
SED-031-SIV-SD-0.0-0.5	ANTHRACENE	J	0.43	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.99	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.9	PQL	ug/Kg	
SED-040-SIV-SD-0.0-0.5	ANTHRACENE	J	0.38	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.84	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.79	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	
SL-071-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.96	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.96	1.8	PQL	ug/Kg	
SL-073-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	13	18	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	16	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	12	18	PQL	ug/Kg	
	PYRENE	J	17	18	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.5	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.58	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.0	20	PQL	ug/Kg	
	FLUORENE	J	0.80	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.7	1.8	PQL	ug/Kg	
SL-078-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	9.7	18	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	11	18	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	16	18	PQL	ug/Kg	
	CHRYSENE	J	17	18	PQL	ug/Kg	
	FLUORANTHENE	J	16	18	PQL	ug/Kg	
	PYRENE	J	13	18	PQL	ug/Kg	
SL-083-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.3	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.78	1.8	PQL	ug/Kg	
SL-086-SA5B-SS-0.0-0.5	CHRYSENE	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.89	1.8	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	10	19	PQL	ug/Kg	
SL-092-SA5B-SS-0.0-0.5	NAPHTHALENE	J	0.78	1.9	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.88	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.96	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.91	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.9	PQL	ug/Kg	
SL-139-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.96	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.6	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-236-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	6.4	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-301-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.40	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.4	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	

LDC #: 25337H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/5/11
SDG #: DE036 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: A

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

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	ICB/CCB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn 4x)
VII.	Duplicate Sample Analysis	N	D (Sb, Cd, Ag, Zr 2SxRL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba (12% J/UJ/A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-078-SA5B-SS-0.0-0.5	11	DUP04-SA5B-QC-121310 D	21	SL-071-SA5B-SS-0.0-0.5MS	31	
2	SL-084-SA5B-SS-0.0-0.5	12	SED-029-SIV-SD-0.0-0.5	22	SL-071-SA5B-SS-0.0-0.5MSD	32	
3	SL-076-SA5B-SS-0.0-0.5	13	SED-031-SIV-SD-0.0-0.5	23	SL-071-SA5B-SS-0.0-0.5DUP	33	
4	SL-074-SA5B-SS-0.0-0.5	14	SED-030-SIV-SD-0.0-0.5	24		34	
5	SL-139-SA5B-SS-0.0-0.5	15	SED-040-SIV-SD-0.0-0.5	25		35	
6	SL-083-SA5B-SS-0.0-0.5	16	SL-086-SA5B-SS-0.0-0.5	26		36	
7	SL-074-SA5B-SS-0.0-0.5	17	SL-092-SA5B-SS-0.0-0.5	27		37	
8	SL-301-SA5B-SS-0.0-0.5	18	SL-103-SA5B-SS-0.0-0.5	28		38	
9	SL-073-SA5B-SS-0.0-0.5	19	SL-089-SA5B-SS-0.0-0.5	29		39	
10	SL-072-SA5B-SS-0.0-0.5	20	SL-236-SA5B-SS-0.0-0.5	30		40	

Notes: DUP04 & SL-071

SAMPLE DELIVERY GROUP

DE037

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3050B	6010B	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3050B	6020	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3060A	7199	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8081A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8082	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8151A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8270C	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8270C SIM	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	Gen Prep	9045M	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	300.0	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	314.0	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	7471A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5MSD	P163878M240238A	MSD	3550B	8151A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5MS	P163878R240210A	MS	3550B	8151A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	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
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	P163871M321933A	MSD	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	P163871R321904A	MS	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	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
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	9012B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3050B	6010B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3050B	6020	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3060A	7199	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8081A	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8082	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8151A	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8270C	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8270C SIM	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	Gen Prep	9045M	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	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
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	314.0	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	6850	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	7471A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3050B	6010B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3050B	6020	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3060A	7199	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3546	1625C	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8015B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8082	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8270C	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8270C SIM	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8015M	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8260B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8260B SIM	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	8330	8330A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	Gen Prep	9045M	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	300.0	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	314.0	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	7471A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	8015B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	8315A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	9012B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3050B	6010B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3050B	6020	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3060A	7199	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8015B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8082	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8270C	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8270C SIM	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8015M	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8260B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8260B SIM	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	8330	8330A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	Gen Prep	9045M	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	300.0	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	314.0	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	7471A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	8015B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	8315A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	9012B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3050B	6010B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3050B	6020	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3060A	7199	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3546	1625C	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8015B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8082	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8270C	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8270C SIM	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8015M	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8260B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	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
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	8330	8330A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	Gen Prep	9045M	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	300.0	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	314.0	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	7471A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	8015B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	8315A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	9012B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3005A	6010B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3020A	6020	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8081A	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8082	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8270C	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8270C SIM	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	5030B	8260B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	5030B	8260B SIM	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	300.0	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	314.0	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	7199	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	9040B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	METHOD	7470A	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	METHOD	8151A	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3050B	6010B	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3050B	6020	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3060A	7199	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	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
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8082	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8151A	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8270C	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8270C SIM	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	Gen Prep	9045M	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	300.0	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	314.0	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	7471A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3050B	6010B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3050B	6020	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3060A	7199	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3546	1625C	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8081A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8082	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8151A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8270C	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8270C SIM	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8015M	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8260B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8260B SIM	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	8330	8330A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	Gen Prep	9045M	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	300.0	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	314.0	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	8315A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	9012B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5MSD	P163880M322326A	MSD	METHOD	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5MS	P163880R322312A	MS	METHOD	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3050B	6010B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3050B	6020	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3060A	7199	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3546	1625C	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8082	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8270C	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8270C SIM	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8015M	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8260B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8260B SIM	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	8330	8330A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	Gen Prep	9045M	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	300.0	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	314.0	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	6850	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	7471A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	8315A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	9012B	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	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
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3050B	6020	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3060A	7199	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8081A	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8082	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8151A	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8270C	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8270C SIM	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	Gen Prep	9045M	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	300.0	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	314.0	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	7471A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3050B	6010B	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3050B	6020	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3060A	7199	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8081A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8082	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8151A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8270C	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8270C SIM	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	Gen Prep	9045M	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	300.0	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	314.0	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	6850	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	7471A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3050B	6010B	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3060A	7199	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8081A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8082	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8151A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8270C	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8270C SIM	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	Gen Prep	9045M	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	300.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	7471A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5DUP	P163883D270644B	DUP	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5DUP	P163883D271735B	DUP	METHOD	300.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5MS	P163883R270708B	MS	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5MS	P163883R271749B	MS	METHOD	300.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3050B	6010B	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3050B	6020	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3060A	7199	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8081A	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8082	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8151A	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8270C	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8270C SIM	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	Gen Prep	9045M	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	300.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	314.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	7471A	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3050B	6010B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3050B	6020	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3060A	7199	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3546	1625C	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8015B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8082	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8270C	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8270C SIM	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8015M	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8260B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8260B SIM	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	8330	8330A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	Gen Prep	9045M	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	300.0	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	314.0	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	7471A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	8015B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	8315A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0DUP	P163885D272017A	DUP	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0MS	P163885R272021A	MS	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3050B	6010B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3050B	6020	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3060A	7199	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3546	1625C	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8015B	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
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8082	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8270C	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8270C SIM	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8015M	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8260B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8260B SIM	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	8330	8330A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	Gen Prep	9045M	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	300.0	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	314.0	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	7471A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	8015B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	8315A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	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: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: EM **Method:** 9040B **Matrix:** AQ

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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
PH	5.2		0.010	MDL	0.010	PQL	pH unit	J	H

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	16.8		0.92	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	13.0		0.90	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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
Nitrate-NO3	1.9		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	8.0		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z, Q

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.98	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z, Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.54	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
PHOSPHORUS	397		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3800		20.2	MDL	56.2	PQL	mg/Kg	J	Q
TIN	2.94	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.82	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.97	J	0.998	MDL	5.61	PQL	mg/Kg	J	Z
PHOSPHORUS	386		0.628	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2790		20.2	MDL	56.1	PQL	mg/Kg	J	Q
SODIUM	78.8	J	41.8	MDL	112	PQL	mg/Kg	J	Z
TIN	2.66	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.22	J	0.942	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.23	J	0.908	MDL	5.10	PQL	mg/Kg	J	Z
PHOSPHORUS	267		0.572	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	1810		18.4	MDL	51.0	PQL	mg/Kg	J	Q
SODIUM	64.8	J	38.1	MDL	102	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.86	J	1.02	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.87	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
PHOSPHORUS	306		0.594	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2360		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	105	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.33	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	413		0.668	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	4570		21.5	MDL	59.6	PQL	mg/Kg	J	Q
TIN	2.80	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	4.76	J	1.00	MDL	5.96	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *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	0.959	MDL	5.39	PQL	mg/Kg	J	Z
PHOSPHORUS	349		0.603	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2660		19.4	MDL	53.9	PQL	mg/Kg	J	Q
TIN	2.50	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.905	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	419		0.608	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3630		19.5	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.29	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.82	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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	4.83	J	0.941	MDL	5.29	PQL	mg/Kg	J	Z
PHOSPHORUS	318		0.592	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2590		19.0	MDL	52.9	PQL	mg/Kg	J	Q
TIN	2.43	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.68	J	0.888	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.96	J	0.949	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	430		0.597	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2790		19.2	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.45	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.20	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	310		0.605	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2560		19.4	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.43	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.75	J	0.907	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.61	J	0.938	MDL	5.27	PQL	mg/Kg	J	Z
PHOSPHORUS	509		0.590	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3410		19.0	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.61	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.886	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.83	J	0.939	MDL	5.28	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	517		0.591	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2400		19.0	MDL	52.8	PQL	mg/Kg	J	Q
SODIUM	90.4	J	39.4	MDL	106	PQL	mg/Kg	J	Z
TIN	2.62	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.886	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	422		0.588	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3390		18.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.65	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.31	J	0.954	MDL	5.36	PQL	mg/Kg	J	Z
PHOSPHORUS	451		0.600	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	3220		19.3	MDL	53.6	PQL	mg/Kg	J	Q
TIN	2.61	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.44	J	0.900	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	518		0.586	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	4880		18.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.86	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.18	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	0.928	MDL	5.21	PQL	mg/Kg	J	Z
PHOSPHORUS	441		0.584	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3440		18.8	MDL	52.1	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
Zirconium	1.88	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 6020 **Matrix:** AQ

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 12:15:00 *Analysis Type:* REA6 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000099	J	0.000052	MDL	0.0010	PQL	mg/L	J	Z

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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
CADMIUM	0.102	J	0.0409	MDL	0.114	PQL	mg/Kg	J	Z, Q

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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
SELENIUM	0.340	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.419		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.123	MDL	0.454	PQL	mg/Kg	J	A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 ***Collected:*** 12/13/2010 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	0.214	J	0.0681	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	7.66		0.0681	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	9.46		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, A
SILVER	0.0310	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
ZINC	91.3		0.636	MDL	3.41	PQL	mg/Kg	J	A

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.249		0.0404	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	25.0		0.0292	MDL	0.561	PQL	mg/Kg	J	Q, A

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.707		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.121	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0673	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	8.28		0.0673	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	1.39		0.0135	MDL	0.112	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	109		0.628	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.150		0.0375	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.691		0.0520	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.112	MDL	0.416	PQL	mg/Kg	J	A

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.286		0.0624	MDL	0.208	PQL	mg/Kg	J	Q
ARSENIC	9.50		0.0624	MDL	0.416	PQL	mg/Kg	J	Q
LEAD	15.0		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, A
SILVER	0.329		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	118		0.583	MDL	3.12	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0626	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z, Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.760		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.2		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0994	J	0.0637	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	7.96		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	5.49		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
SILVER	0.0190	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	79.0		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.212		0.0434	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0482	MDL	0.482	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0602	MDL	0.120	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	203		0.130	MDL	0.482	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.559		0.0723	MDL	0.241	PQL	mg/Kg	J	Q
ARSENIC	12.2		0.0723	MDL	0.482	PQL	mg/Kg	J	Q
LEAD	13.0		0.0125	MDL	0.241	PQL	mg/Kg	J	Q, A
SILVER	0.0765	J	0.0145	MDL	0.120	PQL	mg/Kg	J	Z, Q
ZINC	115		0.675	MDL	3.61	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0875	J	0.0373	MDL	0.104	PQL	mg/Kg	J	Z, Q

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.780		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0622	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	7.50		0.0622	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	6.10		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-003-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 2:37:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0366	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
ZINC	89.1		0.580	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.108	J	0.0402	MDL	0.112	PQL	mg/Kg	J	Z, Q

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.299	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.517		0.0559	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.121	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.272		0.0670	MDL	0.223	PQL	mg/Kg	J	Q
ARSENIC	6.87		0.0670	MDL	0.447	PQL	mg/Kg	J	Q
LEAD	9.45		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, A
SILVER	0.0341	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
ZINC	81.2		0.626	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 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
CADMIUM	0.248		0.0388	MDL	0.108	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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
SELENIUM	0.241	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 9:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.790		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 9:55:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.116	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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	0.296		0.0647	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	11.4		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	13.0		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
SILVER	0.0704	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
ZINC	114		0.604	MDL	3.24	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0887	J	0.0388	MDL	0.108	PQL	mg/Kg	J	Z, Q

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.684		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.116	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0646	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0646	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	6.51		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, A
SILVER	0.0301	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
ZINC	94.7		0.603	MDL	3.23	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.128		0.0385	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.115	MDL	0.428	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0642	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	9.29		0.0642	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	7.95		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0588	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
ZINC	90.9		0.599	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.173		0.0376	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.193	J	0.0626	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	8.68		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	10.0		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, A
SILVER	0.173		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	127		0.585	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-077-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 10:04:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.130		0.0380	MDL	0.106	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0944	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.538		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.9		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.215		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	8.71		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	6.50		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, A
SILVER	0.0576	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	84.3		0.591	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.490		0.0371	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.237	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	10.7		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.470		0.0618	MDL	0.206	PQL	mg/Kg	J	Q
ARSENIC	8.71		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	13.3		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, A
SILVER	0.0715	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
ZINC	147		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.282		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **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	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.19		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	143		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.405		0.0637	MDL	0.212	PQL	mg/Kg	J	Q
ARSENIC	8.58		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	10.9		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.841		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	133		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.271		0.0380	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.334	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.31		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.114	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.437		0.0634	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	10.8		0.0634	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	15.2		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, A
SILVER	0.0585	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	182		0.592	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-095-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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
CADMIUM	0.278		0.0364	MDL	0.101	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
SELENIUM	0.159	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	162		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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		0.0607	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	7.12		0.0607	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	10.9		0.0105	MDL	0.202	PQL	mg/Kg	J	Q, A
SILVER	0.0526	J	0.0121	MDL	0.101	PQL	mg/Kg	J	Z, Q
ZINC	126		0.567	MDL	3.04	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.79	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 2:37:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 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	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.52	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0148	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0033	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0043	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0036	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0304	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0218	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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
N-NITROSODIMETHYLAMINE	129		19.1	MDL	38.2	PQL	ng/Kg	J	FD

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	18.8	U	18.8	MDL	37.6	PQL	ng/Kg	UJ	Q, FD

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	108	J	89.3	MDL	179	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.35		0.069	MDL	0.19	PQL	ug/Kg	J	S
DELTA-BHC	0.19		0.041	MDL	0.19	PQL	ug/Kg	J	S

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.16	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DELTA-BHC	0.12	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.44	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
AROCLOR 1260	2.1	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *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	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.61	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.97	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, FD

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.71	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.4	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.88	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *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 1260	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	9.7	J	5.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	5.1	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	38		0.72	MDL	3.7	PQL	ug/Kg	J	S
Aroclor 5460	2.8	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z, S

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	5.1		0.66	MDL	1.8	PQL	ug/Kg	U	B
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-075-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.94	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z, Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	280		80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.66	MDL	1.8	PQL	ug/Kg	U	B
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPA	200	J	81	MDL	270	PQL	ug/Kg	J	Z
MCPP	130	J	80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *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	2.9		0.68	MDL	1.9	PQL	ug/Kg	U	B
DICAMBA	0.54	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
2,4-DB	3.9		0.65	MDL	1.8	PQL	ug/Kg	U	B
DICAMBA	0.55	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z
ANTHRACENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
CARBAZOLE	24	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	120	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	110	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-CHLOROPHENYL-PHENYLETHER	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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	0.24	J	0.050	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.093	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.11	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-butylphthalate	0.31	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.082	J	0.050	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.033	J	0.010	MDL	0.050	PQL	ug/L	J	Z
PHENANTHRENE	0.018	J	0.010	MDL	0.050	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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	10	J	6.9	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.49	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30		6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.96	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.99	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.4	MDL	19	PQL	ug/Kg	U	B
NAPHTHALENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-003-SA5C-SB-4.0-5.0** ***Collected:*** **12/13/2010 2:37:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.90	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.76	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-006-SA5C-SB-4.0-5.0** ***Collected:*** **12/13/2010 9:45:00** ***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	9.0	J	6.8	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.46	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: **SL-007-SA5C-SB-9.0-10.0** ***Collected:*** **12/13/2010 12:14:00** ***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	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-075-SA5B-SS-0.0-0.5** ***Collected:*** **12/13/2010 9:03:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.49	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.4	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	0.78	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: **SL-077-SA5B-SS-0.0-0.5** ***Collected:*** **12/13/2010 10:04:00** ***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	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.5	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.99	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *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	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *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	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	25		6.5	MDL	20	PQL	ug/Kg	U	B
NAPHTHALENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.3	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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
FORMALDEHYDE	990	J	650	MDL	1600	PQL	ug/Kg	J	Z

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

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	110	J	110	MDL	540	PQL	ug/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	140	J	110	MDL	550	PQL	ug/Kg	J	Z

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

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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
ACETONE	7	J	6	MDL	20	PQL	ug/L	J	Z

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.97	J	0.30	MDL	5.1	PQL	ug/Kg	U	B

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *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	3.0	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: SL-001-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 4:16:00 ***Analysis Type:*** RES ***Dilution:*** 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.6	J	1.2	MDL	8.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.5	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 2:37:00 ***Analysis Type:*** RES ***Dilution:*** 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.13	J	0.12	MDL	4.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.4	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.63	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.7	J	7.3	MDL	8.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-007-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.14	J	0.12	MDL	4.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.5	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-007-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-085-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 1:35:00 ***Analysis Type:*** RES ***Dilution:*** 1.29

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.33	MDL	5.5	PQL	ug/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE037

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE037 **Laboratory: LL**
EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 9040B **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB15-SA5B-121310 (RES)	Sampling To Analysis	103.00	48.00	HOURS	J (all detects) R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:46:00 PM	MAGNESIUM	0.0421 mg/L	EB15-SA5B-121310
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB15-SA5B-121310

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108CB221941	12/20/2010 7:41:00 PM	PHOSPHORUS TIN	1.63 mg/Kg 1.28 mg/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-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
DUP13-SA5C-QC-121310(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SED-032-SIV-SD-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SED-033-SIV-SD-0.0-0.5(RES)	TIN	1.86 mg/Kg	1.86U mg/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P50505AB321750A	12/17/2010 5:50:00 PM	METHANOL	110 ug/Kg	DUP13-SA5C-QC-121310 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P51516AB242352A	12/20/2010 11:52:00 PM	2,4-DB MCPP	1.2 ug/Kg 160 ug/Kg	SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-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
SED-033-SIV-SD-0.0-0.5(RES)	2,4-DB	5.1 ug/Kg	5.1U ug/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	MCPP	280 ug/Kg	280U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	2,4-DB	1.6 ug/Kg	1.8U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	MCPP	130 ug/Kg	270U ug/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	2,4-DB	2.9 ug/Kg	2.9U ug/Kg
SL-095-SA5B-SS-0.0-0.5(RES)	2,4-DB	3.9 ug/Kg	3.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	DUP13-SA5C-QC-121310 SL-001-SA5C-SB-4.0-5.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-085-SA5B-SS-0.0-0.5
VBLKB18B211848A	12/16/2010 6:48:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.37 ug/Kg 1.0 ug/Kg	SL-001-SA5C-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
DUP13-SA5C-QC-121310(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	5.1U ug/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.0 ug/Kg	4.1U ug/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	CHLOROFORM	0.13 ug/Kg	4.0U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_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-003-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.4 ug/Kg	4.0U ug/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	4.3U ug/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.4U ug/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	CHLOROFORM	0.14 ug/Kg	4.0U ug/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	4.0U ug/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.4U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	5.5U ug/Kg

Method: 8270C
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB35B262253	1/3/2011 10:53:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Diethylphthalate	18 ug/Kg 28 ug/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI34B262040	12/22/2010 8:40:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Diethylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.11 ug/L 0.076 ug/L 0.063 ug/L 0.13 ug/L 0.084 ug/L	EB15-SA5B-121310

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5B-121310(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.24 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Butylbenzylphthalate	0.093 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Diethylphthalate	0.11 ug/L	1.0U ug/L

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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
EB15-SA5B-121310(RES)	Di-n-butylphthalate	0.31 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Di-n-octylphthalate	0.082 ug/L	1.0U ug/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC35B261309	12/29/2010 1:09:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	6.3 ug/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-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
DUP13-SA5C-QC-121310(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	21U ug/Kg
SED-032-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	30 ug/Kg	30U ug/Kg
SED-033-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	19U ug/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	20U ug/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	19U ug/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	19U ug/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	25 ug/Kg	25U ug/Kg
SL-095-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	16 ug/Kg	19U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	Nitrate-NO3	152	-	80.00-120.00	-	Nitrate-NO3	J (all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-075-SA5B-SS-0.0-0.5MS SL-075-SA5B-SS-0.0-0.5MSD (SL-075-SA5B-SS-0.0-0.5)	2,4-D	-	-	28.00-161.00	56 (35.00)	2,4-D	J(all detects)
	2,4-DB	188	-	20.00-170.00	-	2,4-DB	
	DALAPON	-	100	12.00-86.00	72 (50.00)	DALAPON	
	MCPA	232	199	31.00-184.00	-	MCPA	
SL-075-SA5B-SS-0.0-0.5MS SL-075-SA5B-SS-0.0-0.5MSD (SL-075-SA5B-SS-0.0-0.5)	DICAMBA	5	5	33.00-120.00	-	DICAMBA	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-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ARSENIC	140	155	75.00-125.00	-	ARSENIC	J(all detects) Zn No Qual, >4x
	CADMIUM	129	138	75.00-125.00	-	CADMIUM	
	SILVER	-	130	75.00-125.00	-	SILVER	
	ZINC	-	152	75.00-125.00	-	ZINC	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MS **SL-006-SA5C-SB-4.0-5.0MSD** (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ANTIMONY LEAD	51 -	58 67	75.00-125.00 75.00-125.00	- -	ANTIMONY LEAD	J(all detects) UJ(all non-detects)
SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	MOLYBDENUM	-	133	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0. SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	BARIUM	63	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ALUMINUM IRON MANGANESE POTASSIUM TITANIUM	1450 483 167 134 528	1167 835 180 - 467	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Fe, Mn, Ti No Qual, >4x
SL-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	CALCIUM MAGNESIUM	-144 -242	-221 -219	75.00-125.00 75.00-125.00	- -	CALCIUM MAGNESIUM	No Qual, >4x
SL-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	PHOSPHORUS	54	-	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-006-SA5C-SB-4.0-5.0MSD (SL-006-SA5C-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	35 (30.00)	2,4-DINITROPHENOL	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MSD	4-CHLOROPHENYL-PHENYLET	-	79	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	J(all detects)
(SL-006-SA5C-SB-4.0-5.0)	BENZIDINE	-	23	35.00-141.00	46 (30.00)	BENZIDINE	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-006-SA5C-SB-4.0-5.0MSD	N-NITROSODIMETHYLAMINE	-	66	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects)
(SL-006-SA5C-SB-4.0-5.0)							UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-006-SA5C-SB-4.0-5.0DUP	ANTIMONY	49	20.00	
(DUP13-SA5C-QC-121310	MOLYBDENUM	22	20.00	
SED -032-SIV-SD-0.0-0.5	SILVER	26	20.00	
SED -033-SIV-SD-0.0-0.5				
SL-001-SA5C-SB-4.0-5.0				
SL-001-SA5C-SB-9.0-10.0				
SL-003-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-9.0-10.0				No Qual
SL-007-SA5C-SB-4.0-5.0				OK by difference
SL-007-SA5C-SB-9.0-10.0				
SL-075-SA5B-SS-0.0-0.5				
SL-077-SA5B-SS-0.0-0.5				
SL-085-SA5B-SS-0.0-0.5				
SL-087-SA5B-SS-0.0-0.5				
SL-091-SA5B-SS-0.0-0.5				
SL-095-SA5B-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-006-SA5C-SB-4.0-5.0DUP	HEXAVALENT CHROMIUM	32	20.00	
(DUP13-SA5C-QC-121310				
SED -032-SIV-SD-0.0-0.5				
SED -033-SIV-SD-0.0-0.5				
SL-001-SA5C-SB-4.0-5.0				
SL-001-SA5C-SB-9.0-10.0				
SL-003-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-9.0-10.0				No Qual
SL-007-SA5C-SB-4.0-5.0				OK by difference
SL-007-SA5C-SB-9.0-10.0				
SL-075-SA5B-SS-0.0-0.5				
SL-077-SA5B-SS-0.0-0.5				
SL-085-SA5B-SS-0.0-0.5				
SL-087-SA5B-SS-0.0-0.5				
SL-091-SA5B-SS-0.0-0.5				
SL-095-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1. eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03506AY241102A (EB15-SA5B-121310)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 7199
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34813AY271243A (EB15-SA5B-121310)	HEXAVALENT CHROMIUM	-	112	90.00-110.00	-	HEXAVALENT CHROMIUM	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSY262212 (EB15-SA5B-121310)	1,2-Diphenylhydrazine/Azobenzen	-	118	78.00-116.00	-	1,2-Diphenylhydrazine/Azobenz	J(all detects)
	2,4,5-TRICHLOROPHENOL	-	108	79.00-107.00	-	2,4,5-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	-	117	80.00-109.00	-	2,4-DICHLOROPHENOL	
	2,4-DIMETHYLPHENOL	-	117	72.00-110.00	-	2,4-DIMETHYLPHENOL	
	2-CHLOROPHENOL	-	109	77.00-108.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	-	102	64.00-101.00	-	2-METHYLPHENOL	
	DIBENZOFURAN	-	111	83.00-108.00	-	DIBENZOFURAN	
P0WBLCSY262212 (EB15-SA5B-121310)	BENZOIC ACID	-	-	10.00-69.00	44 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03516AQ240020A (SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1. eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03556AQ240109A (SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8081A**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SED-032-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	J (all detects)

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-006-SA5C-SB-4.0-5.0	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-091-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	190	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037 | Laboratory: LL

EDD Filename: DE037_v1 | eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
MOISTURE	11.4	12.8	12		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
N-NITROSODIMETHYLAMINE	37.6 U	129	200	50.00	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
FLUORIDE	3.3	3.6	9	50.00	No Qualifiers Applied
Nitrate-NO3	13.0	16.8	26	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
ALUMINUM	23700	26300	10	50.00	No Qualifiers Applied
BORON	7.11	5.54	25	50.00	
CALCIUM	7330	7160	2	50.00	
IRON	29600	33600	13	50.00	
LITHIUM	29.0	29.5	2	50.00	
MAGNESIUM	7030	7170	2	50.00	
MANGANESE	387	332	15	50.00	
PHOSPHORUS	419	397	5	50.00	
POTASSIUM	3630	3800	5	50.00	
SODIUM	198	189	5	50.00	
STRONTIUM	32.2	33.9	5	50.00	
TIN	2.29	2.94	25	50.00	
TITANIUM	1230	1560	24	50.00	
Zirconium	3.82	4.82	23	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
ANTIMONY	0.272	0.214	24	50.00	No Qualifiers Applied
ARSENIC	6.87	7.66	11	50.00	
BARIUM	128	123	4	50.00	
BERYLLIUM	0.957	0.962	1	50.00	
CADMIUM	0.108	0.102	6	50.00	
CHROMIUM	38.2	43.1	12	50.00	
COBALT	9.01	9.56	6	50.00	
COPPER	12.0	12.3	2	50.00	
LEAD	9.45	9.46	0	50.00	
MOLYBDENUM	0.517	0.419	21	50.00	
NICKEL	17.0	19.0	11	50.00	
SELENIUM	0.299	0.340	13	50.00	
SILVER	0.0341	0.0310	10	50.00	
THALLIUM	0.361	0.392	8	50.00	
VANADIUM	76.5	89.1	15	50.00	
ZINC	81.2	91.3	12	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
HEXAVALENT CHROMIUM	0.26	0.28	7	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
AROCLOR 1254	0.97	0.44	75	50.00	J(all detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
METHYLENE CHLORIDE	0.63	0.97	42	50.00	No Qualifiers Applied

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	10	11	50.00	No Qualifiers Applied
CHRYSENE	0.46	1.9 U	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
PH	8.16	8.05	1	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
Oxidation Reduction Potential	399	400	0		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	LEAD	J	0.000099	0.0010	PQL	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	ACETONE	J	7	20	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.24	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.093	1.0	PQL	ug/L	
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.31	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.082	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.033	0.050	PQL	ug/L	
	PHENANTHRENE	J	0.018	0.050	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	108	179	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	FLUORIDE	J	0.90	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	Nitrate-NO3	J	0.98	1.6	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	BORON	J	5.54	5.62	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.2	PQL	mg/Kg	
	Zirconium	J	4.82	5.62	PQL	mg/Kg	
SED-032-SIV-SD-0.0-0.5	BORON	J	4.97	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	78.8	112	PQL	mg/Kg	
	TIN	J	2.66	11.2	PQL	mg/Kg	
	Zirconium	J	1.22	5.61	PQL	mg/Kg	
SED-033-SIV-SD-0.0-0.5	BORON	J	3.23	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	64.8	102	PQL	mg/Kg	
	TIN	J	1.86	10.2	PQL	mg/Kg	
SL-001-SA5C-SB-4.0-5.0	BORON	J	2.87	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	106	PQL	mg/Kg	
	TIN	J	2.33	10.6	PQL	mg/Kg	
SL-001-SA5C-SB-9.0-10.0	TIN	J	2.80	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.76	5.96	PQL	mg/Kg	
SL-003-SA5C-SB-4.0-5.0	BORON	J	4.64	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.8	PQL	mg/Kg	
	Zirconium	J	1.44	5.39	PQL	mg/Kg	
SL-006-SA5C-SB-4.0-5.0	TIN	J	2.29	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.82	5.43	PQL	mg/Kg	
SL-006-SA5C-SB-9.0-10.0	BORON	J	4.83	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	2.43	10.6	PQL	mg/Kg	
	Zirconium	J	1.68	5.29	PQL	mg/Kg	
SL-007-SA5C-SB-4.0-5.0	BORON	J	4.96	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.7	PQL	mg/Kg	
	Zirconium	J	1.20	5.33	PQL	mg/Kg	
SL-007-SA5C-SB-9.0-10.0	TIN	J	2.43	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.75	5.40	PQL	mg/Kg	
SL-075-SA5B-SS-0.0-0.5	BORON	J	3.61	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.5	PQL	mg/Kg	
	Zirconium	J	2.25	5.27	PQL	mg/Kg	
SL-077-SA5B-SS-0.0-0.5	BORON	J	2.83	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.4	106	PQL	mg/Kg	
	TIN	J	2.62	10.6	PQL	mg/Kg	
	Zirconium	J	1.35	5.28	PQL	mg/Kg	
SL-085-SA5B-SS-0.0-0.5	TIN	J	2.65	10.5	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	BORON	J	5.31	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.7	PQL	mg/Kg	
	Zirconium	J	3.44	5.36	PQL	mg/Kg	
SL-091-SA5B-SS-0.0-0.5	TIN	J	2.86	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.18	5.23	PQL	mg/Kg	
SL-095-SA5B-SS-0.0-0.5	BORON	J	4.36	5.21	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.88	5.21	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	ANTIMONY	J	0.214	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.102	0.114	PQL	mg/Kg	
	SELENIUM	J	0.340	0.454	PQL	mg/Kg	
	SILVER	J	0.0310	0.114	PQL	mg/Kg	
SED-032-SIV-SD-0.0-0.5	ANTIMONY	J	0.192	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.168	0.449	PQL	mg/Kg	
SED-033-SIV-SD-0.0-0.5	SELENIUM	J	0.209	0.416	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0994	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0626	0.106	PQL	mg/Kg	
	SELENIUM	J	0.153	0.424	PQL	mg/Kg	
	SILVER	J	0.0190	0.106	PQL	mg/Kg	
SL-001-SA5C-SB-9.0-10.0	SELENIUM	J	0.190	0.482	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0765	0.120	PQL	mg/Kg	
SL-003-SA5C-SB-4.0-5.0	ANTIMONY	J	0.174	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0875	0.104	PQL	mg/Kg	
	SELENIUM	J	0.177	0.414	PQL	mg/Kg	
	SILVER	J	0.0366	0.104	PQL	mg/Kg	
SL-006-SA5C-SB-4.0-5.0	CADMIUM	J	0.108	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.299	0.447	PQL	mg/Kg	
	SILVER	J	0.0341	0.112	PQL	mg/Kg	
SL-006-SA5C-SB-9.0-10.0	SELENIUM	J	0.241	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0704	0.108	PQL	mg/Kg	
SL-007-SA5C-SB-4.0-5.0	ANTIMONY	J	0.156	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0887	0.108	PQL	mg/Kg	
	SELENIUM	J	0.141	0.431	PQL	mg/Kg	
	SILVER	J	0.0301	0.108	PQL	mg/Kg	
SL-007-SA5C-SB-9.0-10.0	ANTIMONY	J	0.132	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.428	PQL	mg/Kg	
	SILVER	J	0.0588	0.107	PQL	mg/Kg	
SL-075-SA5B-SS-0.0-0.5	ANTIMONY	J	0.193	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.418	PQL	mg/Kg	
SL-077-SA5B-SS-0.0-0.5	SELENIUM	J	0.0944	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0576	0.106	PQL	mg/Kg	
SL-085-SA5B-SS-0.0-0.5	SELENIUM	J	0.237	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0715	0.103	PQL	mg/Kg	
SL-087-SA5B-SS-0.0-0.5	SELENIUM	J	0.136	0.424	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	SELENIUM	J	0.334	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0585	0.106	PQL	mg/Kg	
SL-095-SA5B-SS-0.0-0.5	SELENIUM	J	0.159	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0526	0.101	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.79	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.37	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-075-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	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
SED-032-SIV-SD-0.0-0.5	MERCURY	J	0.0148	0.111	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	MERCURY	J	0.0073	0.116	PQL	mg/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	MERCURY	J	0.0131	0.105	PQL	mg/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	MERCURY	J	0.0043	0.108	PQL	mg/Kg	J (all detects)
SL-077-SA5B-SS-0.0-0.5	MERCURY	J	0.0036	0.102	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	MERCURY	J	0.0304	0.107	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	MERCURY	J	0.0218	0.105	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5C-SB-4.0-5.0	METHANOL	J	110	540	PQL	ug/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	METHANOL	J	140	550	PQL	ug/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.16	0.18	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.12	0.17	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	AROCLOR 1254	J	0.44	1.9	PQL	ug/Kg	J (all detects)
SED-033-SIV-SD-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	1.7 2.1	3.6 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.3 0.61	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.97	1.9	PQL	ug/Kg	J (all detects)
SL-007-SA5C-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	0.71 1.9	1.8 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	AROCLOR 1248 AROCLOR 1254 AROCLOR 1260	J J J	1.4 1.1 0.88	1.9 1.9 1.9	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-075-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.9	3.5	PQL	ug/Kg	J (all detects)
SL-077-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.4 1.3	1.8 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	Aroclor 5460	J	9.7	18	PQL	ug/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	Aroclor 5460	J	5.1	7.2	PQL	ug/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.8	7.2	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5B-SS-0.0-0.5	DICAMBA	J	0.94	1.3	PQL	ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	2,4-DB MCPA MCPP	J J J	1.6 200 130	1.8 270 270	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	DICAMBA	J	0.54	1.3	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	DICAMBA	J	0.55	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	METHYLENE CHLORIDE	J	0.97	5.1	PQL	ug/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.0	4.1	PQL	ug/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	2-BUTANONE (MEK) METHYLENE CHLORIDE TOLUENE	J J J	5.6 1.5 0.11	8.2 4.1 4.1	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	CHLOROFORM METHYLENE CHLORIDE	J J	0.13 2.4	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.63	4.3	PQL	ug/Kg	J (all detects)
SL-006-SA5C-SB-9.0-10.0	ACETONE METHYLENE CHLORIDE	J J	8.7 1.1	8.8 4.4	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.14	4.0	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.5	4.0	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.4	4.4	PQL	ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	1.5	5.5	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-032-SIV-SD-0.0-0.5	ACENAPHTHENE	J	43	190	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	37	190	PQL	ug/Kg	
	CARBAZOLE	J	24	190	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	120	190	PQL	ug/Kg	
	PHENANTHRENE	J	110	190	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SED-032-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.49	1.9	PQL	ug/Kg	J (all detects)
SED-033-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	0.94	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.99	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SL-003-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.90	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.76	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
SL-006-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.46	1.9	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.98	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-075-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.49	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.78	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-077-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SL-087-SA5B-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	20	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.91	1.8	PQL	ug/Kg	
SL-091-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-095-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	

Method: **8315A**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5C-SB-9.0-10.0	FORMALDEHYDE	J	990	1600	PQL	ug/Kg	J (all detects)

LDC #: 25337I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-5-11
SDG #: DE037 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020/~~X~~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	ICB/CCB hits - No @Val
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn >4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Mo, Ag <5xRL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba-16%, Pb-12%, Zn-11% :J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=4

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

Validated Samples:

1	SL-006-SA5C-SB-9.0-10.0	11	SL-095-SA5B-SS-0.0-0.5	21		31	
2	DUP13-SA5C-QC-121310	12	SL-091-SA5B-SS-0.0-0.5	22		32	
3	SL-006-SA5C-SB-4.0-5.0	13	SL-003-SA5B-SS-4.0-5.0	23		33	
4	EB-15-SA5B-121310 W	14	SL-001-SA5B-SS-4.0-5.0	24		34	
5	SL-007-SA5C-SB-4.0-5.0	15	SL-001-SA5B-SS-9.0-10.0	25		35	
6	SL-007-SA5C-SB-9.0-10.0	16	SED-032-SIV-SD-0.0-0.5	26		36	
7	SL-075-SA5B-SS-0.0-0.5	17	SED-033-SIV-SD-0.0-0.5	27		37	
8	SL-077-SA5B-SS-0.0-0.5	18	SL-006-SA5C-SB-4.0-5.0MS	28		38	
9	SL-085-SA5B-SS-0.0-0.5	19	SL-006-SA5C-SB-4.0-5.0MSD	29		39	
10	SL-087-SA5B-SS-0.0-0.5	20	SL-006-SA5C-SB-4.0-5.0DUP	30		40	

Notes: _____

LDC #: 25337I4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer:

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 12/13/10 Soil factor applied 100x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification										
	8	Action Level	No Qualifiers (>5x)									
Pb	0.099	0.0495										

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

DE038

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3050B	6010B	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3050B	6020	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3060A	7199	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8081A	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8082	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8151A	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8270C	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	3550B	8270C SIM	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	Gen Prep	9045M	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	METHOD	300.0	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	METHOD	314.0	III
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164627	N	METHOD	7471A	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3050B	6010B	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3050B	6020	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3060A	7199	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8081A	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8082	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8151A	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8270C	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	3550B	8270C SIM	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	Gen Prep	9045M	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	METHOD	300.0	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	METHOD	314.0	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164633	N	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	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
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3060A	7199	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8081A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8082	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8151A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8270C	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	3550B	8270C SIM	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	Gen Prep	9045M	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	METHOD	300.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	METHOD	314.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164622	N	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3050B	6020	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3060A	7199	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8081A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8082	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8151A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8270C	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	3550B	8270C SIM	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	METHOD	300.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	METHOD	314.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164623	MS	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3050B	6020	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8081A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8082	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8151A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8270C	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	3550B	8270C SIM	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164624	MSD	METHOD	7471A	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	3050B	6010B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	3050B	6020	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	3060A	7199	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	Gen Prep	9045M	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	METHOD	300.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	METHOD	314.0	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5DUP	6164625	DUP	METHOD	7471A	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3050B	6010B	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3050B	6020	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3060A	7199	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8081A	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8082	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8151A	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8270C	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	3550B	8270C SIM	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	Gen Prep	9045M	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	METHOD	300.0	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	METHOD	314.0	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164621	FD	METHOD	7471A	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3050B	6010B	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3050B	6020	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3060A	7199	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	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
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8082	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8151A	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8270C	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	3550B	8270C SIM	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	Gen Prep	9045M	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	METHOD	300.0	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	METHOD	314.0	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164626	N	METHOD	7471A	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3050B	6010B	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3050B	6020	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3060A	7199	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8081A	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8082	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8151A	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8270C	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	3550B	8270C SIM	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	Gen Prep	9045M	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	METHOD	300.0	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	METHOD	314.0	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164629	N	METHOD	7471A	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3050B	6010B	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3050B	6020	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3060A	7199	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8081A	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8082	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8151A	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
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8270C	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	3550B	8270C SIM	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	Gen Prep	9045M	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	METHOD	300.0	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	METHOD	314.0	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164631	N	METHOD	7471A	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3050B	6010B	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3050B	6020	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3060A	7199	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8081A	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8082	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8151A	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8270C	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	3550B	8270C SIM	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	Gen Prep	9045M	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	METHOD	300.0	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	METHOD	314.0	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164632	N	METHOD	7471A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3050B	6010B	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3050B	6020	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3060A	7199	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8081A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8082	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8151A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8270C	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	3550B	8270C SIM	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	Gen Prep	9045M	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	METHOD	300.0	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	METHOD	314.0	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164628	N	METHOD	7471A	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5DUP	P164628D291300A	DUP	Gen Prep	9045M	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3050B	6010B	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3050B	6020	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3060A	7199	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8081A	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8082	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8151A	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8270C	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	3550B	8270C SIM	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	Gen Prep	9045M	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	METHOD	300.0	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	METHOD	314.0	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164630	N	METHOD	7471A	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3050B	6010B	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3050B	6020	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3060A	7199	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8081A	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8082	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8151A	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8270C	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	3550B	8270C SIM	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	Gen Prep	9045M	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	METHOD	300.0	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	METHOD	314.0	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164637	N	METHOD	7471A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3050B	6010B	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3050B	6020	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3060A	7199	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8081A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8082	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8151A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8270C	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	3550B	8270C SIM	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	Gen Prep	9045M	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	300.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	314.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	6850	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164634	N	METHOD	7471A	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5DUP	P164634D270645B	DUP	METHOD	300.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5DUP	P164634D271907B	DUP	METHOD	314.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5MS	P164634R270659B	MS	METHOD	300.0	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5MS	P164634R271955B	MS	METHOD	314.0	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3050B	6010B	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3050B	6020	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3060A	7199	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8081A	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8082	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8151A	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8270C	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	3550B	8270C SIM	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	Gen Prep	9045M	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	METHOD	300.0	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	METHOD	314.0	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164638	N	METHOD	7471A	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3050B	6010B	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3050B	6020	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3060A	7199	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8081A	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8082	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8151A	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8270C	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	3550B	8270C SIM	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	Gen Prep	9045M	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	METHOD	300.0	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	METHOD	314.0	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164635	N	METHOD	7471A	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3050B	6010B	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3050B	6020	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3060A	7199	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8081A	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8082	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8151A	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8270C	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	3550B	8270C SIM	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	Gen Prep	9045M	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	METHOD	300.0	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	METHOD	314.0	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164636	N	METHOD	7471A	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3050B	6010B	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3050B	6020	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3060A	7199	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8081A	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8082	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8151A	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8270C	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	3550B	8270C SIM	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	Gen Prep	9045M	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	METHOD	300.0	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	METHOD	314.0	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164643	N	METHOD	7471A	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3050B	6010B	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3050B	6020	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3060A	7199	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8081A	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8082	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8151A	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8270C	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	3550B	8270C SIM	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	Gen Prep	9045M	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	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
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	METHOD	314.0	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164639	N	METHOD	7471A	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3050B	6010B	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3050B	6020	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3060A	7199	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8081A	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8082	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8151A	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8270C	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	3550B	8270C SIM	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	Gen Prep	9045M	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	METHOD	300.0	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	METHOD	314.0	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164641	N	METHOD	7471A	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3050B	6010B	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3050B	6020	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3060A	7199	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8081A	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8082	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8151A	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8270C	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	3550B	8270C SIM	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	Gen Prep	9045M	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	METHOD	300.0	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	N	METHOD	314.0	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164640	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
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3050B	6010B	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3050B	6020	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3060A	7199	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8081A	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8082	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8151A	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8270C	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	3550B	8270C SIM	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	Gen Prep	9045M	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	METHOD	300.0	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	N	METHOD	314.0	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164642	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: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 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	1.0	J	0.83	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1870		6.16	MDL	20.1	PQL	mg/Kg	J	E
LITHIUM	4.4		0.22	MDL	2.0	PQL	mg/Kg	J	FD
MAGNESIUM	1170		2.55	MDL	10.1	PQL	mg/Kg	J	E
POTASSIUM	955		18.1	MDL	50.3	PQL	mg/Kg	J	E
SODIUM	37.5	U	37.5	MDL	101	PQL	mg/Kg	UJ	FD
Zirconium	1.19	J	0.844	MDL	5.03	PQL	mg/Kg	J	Z, FD

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 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
MANGANESE	94.0		0.0784	MDL	0.503	PQL	mg/Kg	J	Q
TIN	1.69	J	1.01	MDL	10.1	PQL	mg/Kg	U	B, B
TITANIUM	248		0.382	MDL	1.01	PQL	mg/Kg	J	Q, E

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3940		6.64	MDL	21.7	PQL	mg/Kg	J	E
MAGNESIUM	5230		2.75	MDL	10.8	PQL	mg/Kg	J	E
POTASSIUM	3320		19.5	MDL	54.2	PQL	mg/Kg	J	E
SODIUM	67.1	J	40.4	MDL	108	PQL	mg/Kg	J	Z
Zirconium	1.29	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-025-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 12:44:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	311		0.0845	MDL	0.542	PQL	mg/Kg	J	Q
TIN	2.54	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	1250		0.412	MDL	1.08	PQL	mg/Kg	J	Q, E

Sample ID: SL-054-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:21:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.62	J	0.869	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:21:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7360		6.34	MDL	20.7	PQL	mg/Kg	J	E
MAGNESIUM	4710		2.63	MDL	10.4	PQL	mg/Kg	J	E

Sample ID: SL-054-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:21:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3230		18.6	MDL	51.8	PQL	mg/Kg	J	E

Sample ID: SL-054-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:21:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	303		0.0807	MDL	0.518	PQL	mg/Kg	J	Q
TIN	2.78	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1310		0.393	MDL	1.04	PQL	mg/Kg	J	Q, E

Sample ID: SL-098-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 10:43:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.40	J	0.859	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 10:43:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7920		6.27	MDL	20.5	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	5590		2.60	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4600		18.4	MDL	51.1	PQL	mg/Kg	J	E

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	312		0.0798	MDL	0.511	PQL	mg/Kg	J	Q
TIN	2.25	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1590		0.389	MDL	1.02	PQL	mg/Kg	J	Q, E

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6520		6.34	MDL	20.7	PQL	mg/Kg	J	E
MAGNESIUM	5240		2.63	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:35:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3870		18.6	MDL	51.7	PQL	mg/Kg	J	E

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MANGANESE	343		0.0806	MDL	0.517	PQL	mg/Kg	J	Q
TIN	2.60	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1340		0.393	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5160		6.29	MDL	20.5	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-108-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 8:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	5140		2.60	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-108-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 8:55:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3890		18.5	MDL	51.3	PQL	mg/Kg	J	E

Sample ID: SL-108-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 8:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	358		0.0800	MDL	0.513	PQL	mg/Kg	J	Q
TIN	2.61	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1500		0.390	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-109-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:09:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.54	J	0.857	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:09:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4040		6.26	MDL	20.4	PQL	mg/Kg	J	E
MAGNESIUM	4670		2.59	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-109-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:09:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3240		18.4	MDL	51.0	PQL	mg/Kg	J	E

Sample ID: SL-109-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	307		0.0796	MDL	0.510	PQL	mg/Kg	J	Q
TIN	2.66	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1400		0.388	MDL	1.02	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.08	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3230		6.44	MDL	21.0	PQL	mg/Kg	J	E
MAGNESIUM	5420		2.67	MDL	10.5	PQL	mg/Kg	J	E

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4930		18.9	MDL	52.5	PQL	mg/Kg	J	E
SODIUM	98.1	J	39.2	MDL	105	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	427		0.0820	MDL	0.525	PQL	mg/Kg	J	Q
TIN	3.09	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	1640		0.399	MDL	1.05	PQL	mg/Kg	J	Q, E

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2070		6.33	MDL	20.6	PQL	mg/Kg	J	E
LITHIUM	7.6		0.23	MDL	2.1	PQL	mg/Kg	J	FD
MAGNESIUM	1850		2.62	MDL	10.3	PQL	mg/Kg	J	E
POTASSIUM	1440		18.6	MDL	51.6	PQL	mg/Kg	J	E
SODIUM	49.7	J	38.5	MDL	103	PQL	mg/Kg	J	Z, FD
Zirconium	2.17	J	0.867	MDL	5.16	PQL	mg/Kg	J	Z, FD

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	131		0.0805	MDL	0.516	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.16	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	404		0.392	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
Zirconium	1.93	J	0.873	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
CALCIUM	3820		6.37	MDL	20.8	PQL	mg/Kg	J	E
MAGNESIUM	4540		2.64	MDL	10.4	PQL	mg/Kg	J	E

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:15:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3780		18.7	MDL	52.0	PQL	mg/Kg	J	E
SODIUM	86.8	J	38.8	MDL	104	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MANGANESE	341		0.0811	MDL	0.520	PQL	mg/Kg	J	Q
TIN	2.53	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1280		0.395	MDL	1.04	PQL	mg/Kg	J	Q, E

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
Zirconium	1.81	J	0.880	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
CALCIUM	2290		6.42	MDL	21.0	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MAGNESIUM	3150		2.66	MDL	10.5	PQL	mg/Kg	J	E

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:40:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3020		18.9	MDL	52.4	PQL	mg/Kg	J	E
SODIUM	70.0	J	39.1	MDL	105	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MANGANESE	233		0.0817	MDL	0.524	PQL	mg/Kg	J	Q
TIN	2.31	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	902		0.398	MDL	1.05	PQL	mg/Kg	J	Q, E

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.69	J	0.860	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2760		6.28	MDL	20.5	PQL	mg/Kg	J	E
MAGNESIUM	4130		2.60	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:40:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2780		18.4	MDL	51.2	PQL	mg/Kg	J	E
SODIUM	75.6	J	38.2	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	275		0.0799	MDL	0.512	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-123-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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	2.76	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1130		0.389	MDL	1.02	PQL	mg/Kg	J	Q, E

Sample ID: SL-124-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
Zirconium	2.30	J	0.860	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
CALCIUM	3280		6.28	MDL	20.5	PQL	mg/Kg	J	E
MAGNESIUM	5200		2.60	MDL	10.2	PQL	mg/Kg	J	E

Sample ID: SL-124-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 11:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4950		18.4	MDL	51.2	PQL	mg/Kg	J	E
SODIUM	83.6	J	38.2	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
MANGANESE	375		0.0799	MDL	0.512	PQL	mg/Kg	J	Q
TIN	3.05	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
TITANIUM	1470		0.389	MDL	1.02	PQL	mg/Kg	J	Q, E

Sample ID: SL-142-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 11:04:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.88	J	0.878	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 11:04:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3390		6.41	MDL	20.9	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MAGNESIUM	5400		2.65	MDL	10.5	PQL	mg/Kg	J	E

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2650		18.8	MDL	52.3	PQL	mg/Kg	J	E
SODIUM	77.6	J	39.0	MDL	105	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	339		0.0815	MDL	0.523	PQL	mg/Kg	J	Q
TIN	3.07	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	1380		0.397	MDL	1.05	PQL	mg/Kg	J	Q, E

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.72	J	0.864	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
CALCIUM	2770		6.30	MDL	20.6	PQL	mg/Kg	J	E
MAGNESIUM	4560		2.61	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3870		18.5	MDL	51.4	PQL	mg/Kg	J	E
SODIUM	70.1	J	38.3	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MANGANESE	306		0.0802	MDL	0.514	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-143-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
TIN	2.62	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1270		0.391	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-240-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:33:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.11	J	0.841	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:33:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6410		6.14	MDL	20.0	PQL	mg/Kg	J	E
MAGNESIUM	5000		2.54	MDL	10.0	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:33:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3480		18.0	MDL	50.1	PQL	mg/Kg	J	E

Sample ID: SL-240-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:33:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	315		0.0781	MDL	0.501	PQL	mg/Kg	J	Q
TIN	2.62	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
TITANIUM	1450		0.381	MDL	1.00	PQL	mg/Kg	J	Q, E

Sample ID: SL-309-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.25	J	0.866	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3950		6.32	MDL	20.6	PQL	mg/Kg	J	E
MAGNESIUM	4380		2.62	MDL	10.3	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-309-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2790		18.6	MDL	51.6	PQL	mg/Kg	J	E

Sample ID: SL-309-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	254		0.0804	MDL	0.516	PQL	mg/Kg	J	Q
TIN	2.40	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1160		0.392	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-310-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:45:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.64	J	0.869	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:45:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3890		6.34	MDL	20.7	PQL	mg/Kg	J	E
MAGNESIUM	4640		2.63	MDL	10.3	PQL	mg/Kg	J	E

Sample ID: SL-310-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:45:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2900		18.6	MDL	51.7	PQL	mg/Kg	J	E

Sample ID: SL-310-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	273		0.0807	MDL	0.517	PQL	mg/Kg	J	Q
TIN	2.35	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
TITANIUM	1160		0.393	MDL	1.03	PQL	mg/Kg	J	Q, E

Sample ID: SL-311-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:00:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.31	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-311-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 2:00:00** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6910		6.58	MDL	21.5	PQL	mg/Kg	J	E
MAGNESIUM	3850		2.72	MDL	10.7	PQL	mg/Kg	J	E
POTASSIUM	2510		19.3	MDL	53.6	PQL	mg/Kg	J	E

Sample ID: **SL-311-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 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
MANGANESE	320		0.0837	MDL	0.536	PQL	mg/Kg	J	Q
TIN	1.88	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	997		0.408	MDL	1.07	PQL	mg/Kg	J	Q, E

Sample ID: **SL-312-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 2:27:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.60	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: **SL-312-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 2:27:00** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4280		6.39	MDL	20.8	PQL	mg/Kg	J	E
MAGNESIUM	4330		2.65	MDL	10.4	PQL	mg/Kg	J	E

Sample ID: **SL-312-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 2:27:00** ***Analysis Type:*** **REA3** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2880		18.8	MDL	52.1	PQL	mg/Kg	J	E

Sample ID: **SL-312-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 2:27:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	261		0.0813	MDL	0.521	PQL	mg/Kg	J	Q
TIN	2.69	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
TITANIUM	1110		0.396	MDL	1.04	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	56.9		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 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	0.169	J	0.0621	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.38		0.0621	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	4.40		0.0207	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0124	U	0.0124	MDL	0.104	PQL	mg/Kg	UJ	FD
THALLIUM	0.0943	J	0.0311	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	20.2		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *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	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.118	MDL	0.438	PQL	mg/Kg	J	A

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *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	0.0657	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	4.21		0.0657	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	6.33		0.0219	MDL	0.109	PQL	mg/Kg	J	A
SILVER	0.0400	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	47.0		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *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		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	5.00		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	5.80		0.0211	MDL	0.106	PQL	mg/Kg	J	A
SILVER	0.0379	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	42.7		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0689	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	127		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *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	0.0608	MDL	0.203	PQL	mg/Kg	J	Z, Q
ARSENIC	3.81		0.0608	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	7.01		0.0203	MDL	0.101	PQL	mg/Kg	J	A
SILVER	0.0257	J	0.0122	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	45.6		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.0577	J	0.0409	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	140		0.111	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.144	J	0.0614	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.15		0.0614	MDL	0.409	PQL	mg/Kg	J	Q
COBALT	6.24		0.0205	MDL	0.102	PQL	mg/Kg	J	A
SILVER	0.0340	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	43.3		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0656	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0621	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.46		0.0621	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	6.76		0.0207	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0221	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	44.0		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-109-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 9:09:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0757	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 9:09:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-109-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 9:09:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	5.97		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	5.79		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0289	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	43.7		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-119-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 8:30:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 8:30:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	170		0.116	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-119-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 8:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222		0.0643	MDL	0.214	PQL	mg/Kg	J	Q
ARSENIC	6.66		0.0643	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	7.67		0.0214	MDL	0.107	PQL	mg/Kg	J	A
SILVER	0.0445	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	46.8		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	48.1		0.112	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.155	J	0.0619	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	3.17		0.0619	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	3.77		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0154	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, FD
THALLIUM	0.101	J	0.0310	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	17.5		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.158	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.112	MDL	0.416	PQL	mg/Kg	J	A

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.154	J	0.0624	MDL	0.208	PQL	mg/Kg	J	Z, Q
ARSENIC	5.88		0.0624	MDL	0.416	PQL	mg/Kg	J	Q
COBALT	6.14		0.0208	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0291	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0407	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.110	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.103	J	0.0611	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.98		0.0611	MDL	0.407	PQL	mg/Kg	J	Q
COBALT	5.19		0.0204	MDL	0.102	PQL	mg/Kg	J	A
SILVER	0.0169	J	0.0122	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	33.8		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, A

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
BARIUM	114		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.353		0.0626	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	6.41		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	7.37		0.0209	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0993	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.181	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	176		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.238		0.0627	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	7.25		0.0627	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	8.02		0.0209	MDL	0.104	PQL	mg/Kg	J	A
SILVER	0.0973	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	55.1		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0633	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	6.72		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	6.99		0.0211	MDL	0.106	PQL	mg/Kg	J	A
SILVER	0.0225	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	46.6		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0411	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.8		0.111	MDL	0.411	PQL	mg/Kg	J	A

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.0659	J	0.0617	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.52		0.0617	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0929	J	0.0370	MDL	0.103	PQL	mg/Kg	J	Z
COBALT	5.26		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0330	J	0.0123	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	36.0		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0812	J	0.0413	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.111	MDL	0.413	PQL	mg/Kg	J	A

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0619	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.41		0.0619	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	6.25		0.0206	MDL	0.103	PQL	mg/Kg	J	A
SILVER	0.0304	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	42.0		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.2		0.108	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.318		0.0601	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	4.83		0.0601	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	5.45		0.0200	MDL	0.100	PQL	mg/Kg	J	A
SILVER	0.0146	J	0.0120	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	35.5		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0956	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	5.32		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	5.12		0.0211	MDL	0.105	PQL	mg/Kg	J	A
SILVER	0.0217	J	0.0127	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	40.0		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.232	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.114	MDL	0.421	PQL	mg/Kg	J	A

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.251		0.0631	MDL	0.210	PQL	mg/Kg	J	Q
ARSENIC	4.91		0.0631	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	5.35		0.0210	MDL	0.105	PQL	mg/Kg	J	A
SILVER	0.103	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	36.0		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0409	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.110	MDL	0.409	PQL	mg/Kg	J	A

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0613	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.44		0.0613	MDL	0.409	PQL	mg/Kg	J	Q
COBALT	6.05		0.0204	MDL	0.102	PQL	mg/Kg	J	A
SILVER	0.0648	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	40.2		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 ***Collected:*** 12/14/2010 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	2.8		0.21	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-054-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:21:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 8:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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	0.57	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 8:47:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-121-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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	0.43	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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	0.43	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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	0.66	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.59	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 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
MERCURY	0.0029	U	0.0029	MDL	0.101	PQL	mg/Kg	UJ	FD

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *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	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0248	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.0207	J	0.0028	MDL	0.0979	PQL	mg/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0376	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0156	J	0.0029	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0103	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z, FD

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MERCURY	0.0048	J	0.0028	MDL	0.0990	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.0044	J	0.0028	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.0225	J	0.0029	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0143	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0042	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0229	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0061	J	0.0028	MDL	0.0985	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.051	J	0.039	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	0.093	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, L
4,4'-DDT	0.36		0.070	MDL	0.36	PQL	ug/Kg	J	L
HEPTACHLOR EPOXIDE	0.13	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:40:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	3.2		0.35	MDL	1.8	PQL	ug/Kg	J	L
4,4'-DDT	4.2		0.35	MDL	1.8	PQL	ug/Kg	J	L

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
ALPHA-BHC	0.46		0.036	MDL	0.18	PQL	ug/Kg	J	S
DELTA-BHC	0.12	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	2.2		0.070	MDL	0.36	PQL	ug/Kg	J	S
HEPTACHLOR EPOXIDE	0.27		0.036	MDL	0.18	PQL	ug/Kg	J	S
MIREX	0.45		0.070	MDL	0.36	PQL	ug/Kg	J	S

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.36	J	0.070	MDL	0.36	PQL	ug/Kg	J	L
4,4'-DDT	0.13	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, L
HEPTACHLOR EPOXIDE	0.15	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *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	1.5	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.1	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	FD, L, E

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *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	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	E, L

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	6.4		1.1	MDL	3.5	PQL	ug/Kg	J	E, L

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4.9	J	3.4	MDL	18	PQL	ug/Kg	J	Z
Aroclor 5432	10	U	10	MDL	34	PQL	ug/Kg	UJ	E, L
Aroclor 5442	10	U	10	MDL	34	PQL	ug/Kg	UJ	L, E
Aroclor 5460	10	U	10	MDL	34	PQL	ug/Kg	UJ	E, L

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:35:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	30		0.69	MDL	3.5	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	6.9	PQL	ug/Kg	UJ	E, L
Aroclor 5442	2.1	U	2.1	MDL	6.9	PQL	ug/Kg	UJ	L, E
Aroclor 5460	4.6	J	2.1	MDL	6.9	PQL	ug/Kg	J	Z, S, E, L

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.6		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	3.3	J	1.0	MDL	3.5	PQL	ug/Kg	J	Z, S, E, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	2.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, E, L

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	31		0.71	MDL	3.7	PQL	ug/Kg	J	S
Aroclor 5432	2.2	U	2.2	MDL	7.1	PQL	ug/Kg	UJ	E, L
Aroclor 5442	2.2	U	2.2	MDL	7.1	PQL	ug/Kg	UJ	L, E
Aroclor 5460	3.8	J	2.2	MDL	7.1	PQL	ug/Kg	J	Z, S, E, L

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.94	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S, Q
AROCLOR 1260	0.91	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, Q, S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.9	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S, FD, E, L

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:40:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.0		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:00:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	10		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	3.5		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	4.8		1.1	MDL	3.5	PQL	ug/Kg	J	S, E, L

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S
AROCLOR 1260	0.51	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S, E, L

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	4.8		1.0	MDL	3.4	PQL	ug/Kg	J	E, L

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.86	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	UJ	E, L

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L, E
Aroclor 5460	3.6		1.1	MDL	3.6	PQL	ug/Kg	J	E, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	E, L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L, E
Aroclor 5460	5.2		1.1	MDL	3.5	PQL	ug/Kg	J	E, L

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPP	140	U	140	MDL	260	PQL	ug/Kg	UJ	FD

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.4	J	1.3	MDL	4.0	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.66	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPP	150	J	77	MDL	260	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.4	PQL	ug/Kg	R	Q
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	720		79	MDL	260	PQL	ug/Kg	J	Q, Q
MCPP	200	J	78	MDL	260	PQL	ug/Kg	J	Z, FD

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
2,4-DB	8.0		0.66	MDL	1.8	PQL	ug/Kg	J	S
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPA	990		80	MDL	260	PQL	ug/Kg	J	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
MCPP	240	J	79	MDL	260	PQL	ug/Kg	J	Z, S

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
DICAMBA	0.51	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	240	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
DICHLOROPROP	47		0.84	MDL	1.8	PQL	ug/Kg	J	S
DINOSEB	1.5	U	1.5	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.1	J	0.66	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	91	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPP	150	J	78	MDL	260	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.70	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	98	J	80	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
2,4-DB	6.5		0.67	MDL	1.8	PQL	ug/Kg	J	S
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPP	81	J	79	MDL	260	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *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	30	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	69	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	74	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	31	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	75	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	37	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *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	19	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	UJ	Q

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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	89	J	18	MDL	350	PQL	ug/Kg	J	Z
Butylbenzylphthalate	21	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	30	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Dimethylphthalate	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.69	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	10		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	16		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	22		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	16		0.69	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	7.7		0.69	MDL	1.7	PQL	ug/Kg	J	FD
CHRYSENE	59		0.35	MDL	1.7	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	3.2		0.69	MDL	1.7	PQL	ug/Kg	J	FD
Di-n-butylphthalate	7.3	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.5	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	11		0.69	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	5.1		0.69	MDL	1.7	PQL	ug/Kg	J	FD
NAPHTHALENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, FD
PYRENE	15		0.69	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *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	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	0.42	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.4	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	6.5	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *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	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.0	J	6.2	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.78	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.89	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.3	MDL	19	PQL	ug/Kg	J	Z
PYRENE	0.89	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.90	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.1	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.4	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
BENZO(A)ANTHRACENE	0.91	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.87	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.7	J	6.5	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.2	J	6.5	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.41	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	4.3		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	6.2		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	7.4		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	6.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	3.8		0.70	MDL	1.7	PQL	ug/Kg	J	FD
CHRYSENE	18		0.35	MDL	1.7	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: PrepDE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-120-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 8:47:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.0	J	6.3	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	5.8		0.70	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	2.9		0.70	MDL	1.7	PQL	ug/Kg	J	FD
NAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD
PYRENE	7.0		0.70	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-122-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 9:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.90	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.97	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.92	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-123-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
ACENAPHTHYLENE	1.0	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
CHRYSENE	0.82	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.41	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.57	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.88	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.96	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.52	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.5	J	6.3	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-310-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.40	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.82	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-311-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	6.2	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
ACENAPHTHENE	4.9	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Sample ID: SL-312-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:27:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	6.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
ACENAPHTHENE	4.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	8.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	6.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	4.7	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE038

Method Blank Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory:** LL

EDD Filename: DE038_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108HB220811	12/29/2010 8:11:00 AM	CALCIUM LITHIUM	7.00 mg/Kg 0.33 mg/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5
P35108HB221359	12/24/2010 1:59:00 PM	PHOSPHORUS TIN	1.61 mg/Kg 1.55 mg/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-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
DUP05-SA5B-QC-121410(RES)	TIN	1.69 mg/Kg	1.69U mg/Kg
SED-025-SIV-SD-0.0-0.5(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	TIN	2.16 mg/Kg	2.16U mg/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE038 | Laboratory: LL

EDD Filename: DE038_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-311-SA5B-SS-0.0-0.5(RES)	TIN	1.88 mg/Kg	1.88U mg/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126CB221254A	12/28/2010 12:54:00 PM	COPPER	0.0941 mg/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH35B260738	1/4/2011 7:38:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	6.6 ug/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	AROCLOR 1016 AROCLOR 1260	215 186	- 152	29.00-146.00 39.00-149.00	- -	AROCLOR 1016, 1221, 1232 AROCLOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	METHOXYCHLOR	-	163	32.00-147.00	-	METHOXYCHLOR	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	DINOSEB	-	-	1.00-44.00	40 (35.00)	DINOSEB	J(all detects)
SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	DALAPON	-	0	12.00-86.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)
SL-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (SL-120-SA5B-SS-0.0-0.5)	MCPA	27	-	31.00-184.00	59 (50.00)	MCPA	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-120-SA5B-SS-0.0-0.5MS (DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	ARSENIC VANADIUM	167 134	- -	75.00-125.00 75.00-125.00	- -	ARSENIC VANADIUM	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_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-120-SA5B-SS-0.0-0.5MS SL-120-SA5B-SS-0.0-0.5MSD (DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	ANTIMONY	68	67	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-120-SA5B-SS-0.0-0.5MS (DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	BARIUM	152	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_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-120-SA5B-SS-0.0-0.5MS	ALUMINUM	1443	1911	75.00-125.00	-	ALUMINUM	
SL-120-SA5B-SS-0.0-0.5MSD	TITANIUM	-	133	75.00-125.00	-	TITANIUM	
(DUP05-SA5B-QC-121410							
SED-025-SIV-SD-0.0-0.5							
SL-054-SA5B-SS-0.0-0.5							
SL-098-SA5B-SS-0.0-0.5							
SL-105-SA5B-SS-0.0-0.5							
SL-108-SA5B-SS-0.0-0.5							
SL-109-SA5B-SS-0.0-0.5							
SL-119-SA5B-SS-0.0-0.5							
SL-120-SA5B-SS-0.0-0.5							
SL-121-SA5B-SS-0.0-0.5							J(all detects)
SL-122-SA5B-SS-0.0-0.5							
SL-123-SA5B-SS-0.0-0.5							Al No Qual,
SL-124-SA5B-SS-0.0-0.5							>4x
SL-142-SA5B-SS-0.0-0.5							
SL-143-SA5B-SS-0.0-0.5							
SL-240-SA5B-SS-0.0-0.5							
SL-309-SA5B-SS-0.0-0.5							
SL-310-SA5B-SS-0.0-0.5							
SL-311-SA5B-SS-0.0-0.5							
SL-312-SA5B-SS-0.0-0.5)							
SL-120-SA5B-SS-0.0-0.5MS	CALCIUM	-1	211	75.00-125.00	35 (20.00)	CALCIUM	
SL-120-SA5B-SS-0.0-0.5MSD	IRON	-985	-358	75.00-125.00	-	IRON	
(DUP05-SA5B-QC-121410	MAGNESIUM	14	-	75.00-125.00	-	MAGNESIUM	
SED-025-SIV-SD-0.0-0.5							
SL-054-SA5B-SS-0.0-0.5							
SL-098-SA5B-SS-0.0-0.5							
SL-105-SA5B-SS-0.0-0.5							
SL-108-SA5B-SS-0.0-0.5							
SL-109-SA5B-SS-0.0-0.5							
SL-119-SA5B-SS-0.0-0.5							
SL-120-SA5B-SS-0.0-0.5							J(all detects)
SL-121-SA5B-SS-0.0-0.5							UJ(all non-detects)
SL-122-SA5B-SS-0.0-0.5							
SL-123-SA5B-SS-0.0-0.5							No Qual %R, >4x
SL-124-SA5B-SS-0.0-0.5							
SL-142-SA5B-SS-0.0-0.5							
SL-143-SA5B-SS-0.0-0.5							
SL-240-SA5B-SS-0.0-0.5							
SL-309-SA5B-SS-0.0-0.5							
SL-310-SA5B-SS-0.0-0.5							
SL-311-SA5B-SS-0.0-0.5							
SL-312-SA5B-SS-0.0-0.5)							
SL-120-SA5B-SS-0.0-0.5MS	MANGANESE	60	-	75.00-125.00	-	MANGANESE	
(DUP05-SA5B-QC-121410							
SED-025-SIV-SD-0.0-0.5							
SL-054-SA5B-SS-0.0-0.5							
SL-098-SA5B-SS-0.0-0.5							
SL-105-SA5B-SS-0.0-0.5							
SL-108-SA5B-SS-0.0-0.5							
SL-109-SA5B-SS-0.0-0.5							
SL-119-SA5B-SS-0.0-0.5							
SL-120-SA5B-SS-0.0-0.5							
SL-121-SA5B-SS-0.0-0.5							J(all detects)
SL-122-SA5B-SS-0.0-0.5							UJ(all non-detects)
SL-123-SA5B-SS-0.0-0.5							
SL-124-SA5B-SS-0.0-0.5							
SL-142-SA5B-SS-0.0-0.5							
SL-143-SA5B-SS-0.0-0.5							
SL-240-SA5B-SS-0.0-0.5							
SL-309-SA5B-SS-0.0-0.5							
SL-310-SA5B-SS-0.0-0.5							
SL-311-SA5B-SS-0.0-0.5							
SL-312-SA5B-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_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-120-SA5B-SS-0.0-0.5MS (SL-120-SA5B-SS-0.0-0.5)	BENZIDINE	28	-	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_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
P03548AY240246A (DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	Aroclor 5442	-	66	75.00-125.00	35 (30.00)	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03557AQ242112A (DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	4,4'-DDE 4,4'-DDT ALDRIN ENDRIN METHOXYCHLOR	143 163 142 139 176	- - - - -	59.00-141.00 54.00-130.00 44.00-135.00 62.00-129.00 59.00-125.00	- - - - -	4,4'-DDE 4,4'-DDT ALDRIN ENDRIN METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_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*
P03567AQ241618A (DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5)	DINOSEB	9	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SL-054-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5)	FLUORIDE	200	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP	LITHIUM	25	20.00	
(DUP05-SA5B-QC-121410	MAGNESIUM	26	20.00	
SED-025-SIV-SD-0.0-0.5	POTASSIUM	22	20.00	
SL-054-SA5B-SS-0.0-0.5	TITANIUM	25	20.00	
SL-098-SA5B-SS-0.0-0.5				
SL-105-SA5B-SS-0.0-0.5				
SL-108-SA5B-SS-0.0-0.5				
SL-109-SA5B-SS-0.0-0.5				
SL-119-SA5B-SS-0.0-0.5				
SL-120-SA5B-SS-0.0-0.5				
SL-121-SA5B-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL-122-SA5B-SS-0.0-0.5				
SL-123-SA5B-SS-0.0-0.5				
SL-124-SA5B-SS-0.0-0.5				Li No Qual OK by difference
SL-142-SA5B-SS-0.0-0.5				
SL-143-SA5B-SS-0.0-0.5				
SL-240-SA5B-SS-0.0-0.5				
SL-309-SA5B-SS-0.0-0.5				
SL-310-SA5B-SS-0.0-0.5				
SL-311-SA5B-SS-0.0-0.5				
SL-312-SA5B-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	SELENIUM	23	20.00	No Qual OK by difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-120-SA5B-SS-0.0-0.5DUP (DUP05-SA5B-QC-121410 SED -025-SIV-SD-0.0-0.5 SL -054-SA5B-SS-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -105-SA5B-SS-0.0-0.5 SL -108-SA5B-SS-0.0-0.5 SL -109-SA5B-SS-0.0-0.5 SL -119-SA5B-SS-0.0-0.5 SL -120-SA5B-SS-0.0-0.5 SL -121-SA5B-SS-0.0-0.5 SL -122-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -240-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-098-SA5B-SS-0.0-0.5DUP (SED-025-SIV-SD-0.0-0.5 SL -098-SA5B-SS-0.0-0.5 SL -123-SA5B-SS-0.0-0.5 SL -124-SA5B-SS-0.0-0.5 SL -142-SA5B-SS-0.0-0.5 SL -143-SA5B-SS-0.0-0.5 SL -309-SA5B-SS-0.0-0.5 SL -310-SA5B-SS-0.0-0.5 SL -311-SA5B-SS-0.0-0.5 SL -312-SA5B-SS-0.0-0.5)	FLUORIDE	34	20.00	No Qual OK by difference

Surrogate Outlier Report

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: DE038_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP05-SA5B-QC-121410	DECACHLOROBIPHENYL	244	20.00-120.00	All Target Analytes	J (all detects)
SL-120-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	162	20.00-120.00	All Target Analytes	J(all detects)
SL-123-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	220	20.00-120.00	All Target Analytes	J(all detects)
SL-124-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	137	20.00-120.00	All Target Analytes	J(all detects)
SL-311-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	141	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP05-SA5B-QC-121410	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SL-098-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-105-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	179 159	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-108-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-119-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	173 159	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-120-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	137	45.00-120.00	All Target Analytes	J(all detects)
SL-121-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	140	45.00-120.00	All Target Analytes	J(all detects)
SL-122-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	137 145	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-124-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	141	45.00-120.00	All Target Analytes	J(all detects)
SL-142-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-143-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-122-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	162	36.00-156.00	All Target Analytes	J(all detects)
SL-124-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	174	36.00-156.00	All Target Analytes	J(all detects)
SL-311-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	226	36.00-156.00	All Target Analytes	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: PrepDE038_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
MOISTURE	4.1	3.4	19		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
FLUORIDE	1.0 U	1.0	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
ALUMINUM	7750	6070	24	50.00	
BORON	5.91	5.07	15	50.00	
CALCIUM	2070	1870	10	50.00	
IRON	10500	8140	25	50.00	
MAGNESIUM	1850	1170	45	50.00	
MANGANESE	131	94.0	33	50.00	No Qualifiers Applied
PHOSPHORUS	271	232	16	50.00	
POTASSIUM	1440	955	41	50.00	
STRONTIUM	25.0	24.4	2	50.00	
TIN	2.16	1.69	24	50.00	
TITANIUM	404	248	48	50.00	
LITHIUM	7.6	4.4	53	50.00	
SODIUM	49.7	101 U	200	50.00	J(all detects) UJ(all non-detects)
Zirconium	2.17	1.19	58	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
ANTIMONY	0.155	0.169	9	50.00	
ARSENIC	3.17	4.38	32	50.00	
BARIUM	48.1	56.9	17	50.00	
BERYLLIUM	0.294	0.270	9	50.00	
CADMIUM	0.121	0.180	39	50.00	
CHROMIUM	8.45	9.66	13	50.00	
COBALT	3.77	4.40	15	50.00	
COPPER	5.68	6.39	12	50.00	No Qualifiers Applied
LEAD	5.86	6.89	16	50.00	
MOLYBDENUM	0.310	0.384	21	50.00	
NICKEL	5.49	5.58	2	50.00	
SELENIUM	0.146	0.157	7	50.00	
THALLIUM	0.101	0.0943	7	50.00	
VANADIUM	17.5	20.2	14	50.00	
ZINC	26.3	36.5	32	50.00	
SILVER	0.0154	0.104 U	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
HEXAVALENT CHROMIUM	1.0 U	2.8	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
MERCURY	0.0103	0.101 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-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
AROCLOR 1254	0.94	1.5	46	50.00	No Qualifiers Applied
AROCLOR 1260	0.91	1.1	19	50.00	
Aroclor 5460	1.9	3.4 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
2,4-DB	3.9	6.2	46	50.00	No Qualifiers Applied
MCPA	720	820	13	50.00	
MCPP	200	260 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-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
Di-n-butylphthalate	6.5	7.3	12	50.00	No Qualifiers Applied
Di-n-octylphthalate	9.0	6.5	32	50.00	
PHENANTHRENE	2.3	3.7	47	50.00	
ANTHRACENE	0.41	0.69	51	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	4.3	10	80	50.00	
BENZO(A)PYRENE	6.2	16	88	50.00	
BENZO(B)FLUORANTHENE	7.4	22	99	50.00	
BENZO(G,H,I)PERYLENE	6.1	16	90	50.00	
BENZO(K)FLUORANTHENE	3.8	7.7	68	50.00	
CHRYSENE	18	59	106	50.00	
DIBENZO(A,H)ANTHRACENE	1.2	3.2	91	50.00	
FLUORANTHENE	5.8	11	62	50.00	
INDENO(1,2,3-CD)PYRENE	2.9	5.1	55	50.00	
NAPHTHALENE	1.7 U	0.99	200	50.00	
PYRENE	7.0	15	73	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: PrepDE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
PH	8.38	7.88	6	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
Oxidation Reduction Potential	414	415	0		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	TIN	J	1.69	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.19	5.03	PQL	mg/Kg	
SED-025-SIV-SD-0.0-0.5	SODIUM	J	67.1	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	10.8	PQL	mg/Kg	
	Zirconium	J	1.29	5.42	PQL	mg/Kg	
SL-054-SA5B-SS-0.0-0.5	TIN	J	2.78	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.62	5.18	PQL	mg/Kg	
SL-098-SA5B-SS-0.0-0.5	TIN	J	2.25	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.40	5.11	PQL	mg/Kg	
SL-105-SA5B-SS-0.0-0.5	TIN	J	2.60	10.3	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	TIN	J	2.61	10.3	PQL	mg/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	TIN	J	2.66	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.54	5.10	PQL	mg/Kg	
SL-119-SA5B-SS-0.0-0.5	SODIUM	J	98.1	105	PQL	mg/Kg	J (all detects)
	TIN	J	3.09	10.5	PQL	mg/Kg	
	Zirconium	J	1.08	5.25	PQL	mg/Kg	
SL-120-SA5B-SS-0.0-0.5	SODIUM	J	49.7	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.16	10.3	PQL	mg/Kg	
	Zirconium	J	2.17	5.16	PQL	mg/Kg	
SL-121-SA5B-SS-0.0-0.5	SODIUM	J	86.8	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	10.4	PQL	mg/Kg	
	Zirconium	J	1.93	5.20	PQL	mg/Kg	
SL-122-SA5B-SS-0.0-0.5	SODIUM	J	70.0	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	1.81	5.24	PQL	mg/Kg	
SL-123-SA5B-SS-0.0-0.5	SODIUM	J	75.6	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	10.2	PQL	mg/Kg	
	Zirconium	J	1.69	5.12	PQL	mg/Kg	
SL-124-SA5B-SS-0.0-0.5	SODIUM	J	83.6	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	10.2	PQL	mg/Kg	
	Zirconium	J	2.30	5.12	PQL	mg/Kg	
SL-142-SA5B-SS-0.0-0.5	SODIUM	J	77.6	105	PQL	mg/Kg	J (all detects)
	TIN	J	3.07	10.5	PQL	mg/Kg	
	Zirconium	J	1.88	5.23	PQL	mg/Kg	
SL-143-SA5B-SS-0.0-0.5	SODIUM	J	70.1	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.62	10.3	PQL	mg/Kg	
	Zirconium	J	1.72	5.14	PQL	mg/Kg	
SL-240-SA5B-SS-0.0-0.5	TIN	J	2.62	10.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.11	5.01	PQL	mg/Kg	
SL-309-SA5B-SS-0.0-0.5	TIN	J	2.40	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.25	5.16	PQL	mg/Kg	
SL-310-SA5B-SS-0.0-0.5	TIN	J	2.35	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.64	5.17	PQL	mg/Kg	
SL-311-SA5B-SS-0.0-0.5	TIN	J	1.88	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.31	5.36	PQL	mg/Kg	
SL-312-SA5B-SS-0.0-0.5	TIN	J	2.69	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.60	5.21	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6020**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	ANTIMONY	J	0.169	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.157	0.414	PQL	mg/Kg	
	THALLIUM	J	0.0943	0.104	PQL	mg/Kg	
SED-025-SIV-SD-0.0-0.5	ANTIMONY	J	0.136	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.438	PQL	mg/Kg	
	SILVER	J	0.0400	0.109	PQL	mg/Kg	
SL-054-SA5B-SS-0.0-0.5	SELENIUM	J	0.104	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0379	0.106	PQL	mg/Kg	
SL-098-SA5B-SS-0.0-0.5	ANTIMONY	J	0.126	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0689	0.405	PQL	mg/Kg	
	SILVER	J	0.0257	0.101	PQL	mg/Kg	
SL-105-SA5B-SS-0.0-0.5	ANTIMONY	J	0.144	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0577	0.409	PQL	mg/Kg	
	SILVER	J	0.0340	0.102	PQL	mg/Kg	
SL-108-SA5B-SS-0.0-0.5	ANTIMONY	J	0.149	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0656	0.414	PQL	mg/Kg	
	SILVER	J	0.0221	0.104	PQL	mg/Kg	
SL-109-SA5B-SS-0.0-0.5	ANTIMONY	J	0.127	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0757	0.412	PQL	mg/Kg	
	SILVER	J	0.0289	0.103	PQL	mg/Kg	
SL-119-SA5B-SS-0.0-0.5	SELENIUM	J	0.161	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0445	0.107	PQL	mg/Kg	
SL-120-SA5B-SS-0.0-0.5	ANTIMONY	J	0.155	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.413	PQL	mg/Kg	
	SILVER	J	0.0154	0.103	PQL	mg/Kg	
	THALLIUM	J	0.101	0.103	PQL	mg/Kg	
SL-121-SA5B-SS-0.0-0.5	ANTIMONY	J	0.154	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.158	0.416	PQL	mg/Kg	
	SILVER	J	0.0291	0.104	PQL	mg/Kg	
SL-122-SA5B-SS-0.0-0.5	ANTIMONY	J	0.103	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.407	PQL	mg/Kg	
	SILVER	J	0.0169	0.102	PQL	mg/Kg	
SL-123-SA5B-SS-0.0-0.5	SELENIUM	J	0.209	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0993	0.104	PQL	mg/Kg	
SL-124-SA5B-SS-0.0-0.5	SELENIUM	J	0.181	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0973	0.104	PQL	mg/Kg	
SL-142-SA5B-SS-0.0-0.5	ANTIMONY	J	0.125	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.422	PQL	mg/Kg	
	SILVER	J	0.0225	0.106	PQL	mg/Kg	
SL-143-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0659	0.206	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0929	0.103	PQL	mg/Kg	
	SELENIUM	J	0.112	0.411	PQL	mg/Kg	
	SILVER	J	0.0330	0.103	PQL	mg/Kg	
SL-240-SA5B-SS-0.0-0.5	ANTIMONY	J	0.113	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0812	0.413	PQL	mg/Kg	
	SILVER	J	0.0304	0.103	PQL	mg/Kg	
SL-309-SA5B-SS-0.0-0.5	SELENIUM	J	0.135	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0146	0.100	PQL	mg/Kg	
SL-310-SA5B-SS-0.0-0.5	SELENIUM	J	0.0956	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0217	0.105	PQL	mg/Kg	
SL-311-SA5B-SS-0.0-0.5	SELENIUM	J	0.232	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.103	0.105	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-312-SA5B-SS-0.0-0.5	ANTIMONY	J	0.142	0.204	PQL	mg/Kg	
	SELENIUM	J	0.157	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0648	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-119-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-124-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-025-SIV-SD-0.0-0.5	MERCURY	J	0.0102	0.110	PQL	mg/Kg	J (all detects)
SL-054-SA5B-SS-0.0-0.5	MERCURY	J	0.0220	0.102	PQL	mg/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	MERCURY	J	0.0248	0.101	PQL	mg/Kg	J (all detects)
SL-105-SA5B-SS-0.0-0.5	MERCURY	J	0.0207	0.0979	PQL	mg/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	MERCURY	J	0.0376	0.102	PQL	mg/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	MERCURY	J	0.0156	0.0995	PQL	mg/Kg	J (all detects)
SL-120-SA5B-SS-0.0-0.5	MERCURY	J	0.0103	0.103	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SS-0.0-0.5	MERCURY	J	0.0048	0.0990	PQL	mg/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	MERCURY	J	0.0044	0.0988	PQL	mg/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	MERCURY	J	0.0225	0.0995	PQL	mg/Kg	J (all detects)
SL-124-SA5B-SS-0.0-0.5	MERCURY	J	0.0143	0.105	PQL	mg/Kg	J (all detects)
SL-142-SA5B-SS-0.0-0.5	MERCURY	J	0.0042	0.102	PQL	mg/Kg	J (all detects)
SL-240-SA5B-SS-0.0-0.5	MERCURY	J	0.0229	0.102	PQL	mg/Kg	J (all detects)
SL-309-SA5B-SS-0.0-0.5	MERCURY	J	0.0061	0.0985	PQL	mg/Kg	J (all detects)
SL-310-SA5B-SS-0.0-0.5	MERCURY	J	0.0067	0.104	PQL	mg/Kg	J (all detects)
SL-311-SA5B-SS-0.0-0.5	MERCURY	J	0.0132	0.107	PQL	mg/Kg	J (all detects)
SL-312-SA5B-SS-0.0-0.5	MERCURY	J	0.0077	0.101	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-119-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.051	0.18	PQL	ug/Kg	J (all detects)
SL-121-SA5B-SS-0.0-0.5	4,4'-DDE HEPTACHLOR EPOXIDE	J J	0.093 0.13	0.36 0.18	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.12	0.18	PQL	ug/Kg	J (all detects)
SL-142-SA5B-SS-0.0-0.5	4,4'-DDT HEPTACHLOR EPOXIDE	J J	0.13 0.15	0.36 0.18	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	AROCLOR 1254 AROCLOR 1260	J J	1.5 1.1	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SED-025-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-054-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.5	1.8	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	AROCLOR 1254	J	4.9	18	PQL	ug/Kg	J (all detects)
SL-105-SA5B-SS-0.0-0.5	Aroclor 5460	J	4.6	6.9	PQL	ug/Kg	J (all detects)
SL-108-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.3	3.5	PQL	ug/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.4	3.5	PQL	ug/Kg	J (all detects)
SL-119-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.8	7.1	PQL	ug/Kg	J (all detects)
SL-120-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.94 0.91 1.9	1.8 1.8 3.4	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.0	1.8	PQL	ug/Kg	J (all detects)
SL-143-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.67 0.51 1.1	1.8 1.8 3.4	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-309-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.86	1.8	PQL	ug/Kg	J (all detects)
SL-310-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.7	1.8	PQL	ug/Kg	J (all detects)
SL-312-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.0	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-025-SIV-SD-0.0-0.5	2,4-D	J	1.4	4.0	PQL	ug/Kg	J (all detects)
SL-054-SA5B-SS-0.0-0.5	2,4-DB	J	1.6	1.8	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	MCPP	J	150	260	PQL	ug/Kg	J (all detects)
SL-120-SA5B-SS-0.0-0.5	MCPP	J	200	260	PQL	ug/Kg	J (all detects)
SL-122-SA5B-SS-0.0-0.5	MCPP	J	240	260	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 Laboratory: LL

EDD Filename: DE038_v1 eQAPP Name: CDM_SSFL_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA5B-SS-0.0-0.5	DICAMBA	J	0.51	1.3	PQL	ug/Kg	J (all detects)
	MCPP	J	240	270	PQL	ug/Kg	
SL-142-SA5B-SS-0.0-0.5	2,4-DB	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	MCPP	J	91	270	PQL	ug/Kg	
SL-240-SA5B-SS-0.0-0.5	MCPP	J	150	260	PQL	ug/Kg	J (all detects)
SL-309-SA5B-SS-0.0-0.5	2,4-DB	J	0.70	1.8	PQL	ug/Kg	J (all detects)
SL-310-SA5B-SS-0.0-0.5	MCPA	J	98	260	PQL	ug/Kg	J (all detects)
SL-312-SA5B-SS-0.0-0.5	2,4-DB	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	MCPP	J	81	260	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA5B-SS-0.0-0.5	ANTHRACENE	J	30	180	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	110	180	PQL	ug/Kg	
	BENZO(A)PYRENE	J	69	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	74	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	31	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	32	180	PQL	ug/Kg	
	CHRYSENE	J	130	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	32	180	PQL	ug/Kg	
	PHENANTHRENE	J	75	180	PQL	ug/Kg	
SL-108-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	37	350	PQL	ug/Kg	J (all detects)
SL-109-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	350	PQL	ug/Kg	J (all detects)
SL-119-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-123-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	89	350	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	21	180	PQL	ug/Kg	
	FLUORANTHENE	J	33	180	PQL	ug/Kg	
	PHENANTHRENE	J	22	180	PQL	ug/Kg	
	PYRENE	J	30	180	PQL	ug/Kg	
SL-309-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	20	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	18	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	18	170	PQL	ug/Kg	
	PYRENE	J	23	170	PQL	ug/Kg	
SL-312-SA5B-SS-0.0-0.5	Dimethylphthalate	J	19	180	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	ANTHRACENE	J	0.69	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.3	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.5	19	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-025-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	
	ANTHRACENE	J	0.42	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.4	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.9	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
SL-054-SA5B-SS-0.0-0.5	Di-n-octylphthalate	J	6.5	19	PQL	ug/Kg	J (all detects)
SL-098-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.78	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.7	PQL	ug/Kg	
SL-105-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.4	19	PQL	ug/Kg	
	PYRENE	J	0.89	1.7	PQL	ug/Kg	
SL-108-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.90	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.1	19	PQL	ug/Kg	
SL-109-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
SL-119-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.91	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.87	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.7	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.2	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-120-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.5	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.0	19	PQL	ug/Kg	
SL-122-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.97	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.77	1.8	PQL	ug/Kg	
	PYRENE	J	1.0	1.8	PQL	ug/Kg	
SL-123-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	19	PQL	ug/Kg	
	FLUORENE	J	1.2	1.8	PQL	ug/Kg	
SL-124-SA5B-SS-0.0-0.5	CHRYSENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.77	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-142-SA5B-SS-0.0-0.5	CHRYSENE	J	0.41	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE038 **Laboratory: LL**

EDD Filename: DE038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA5B-SS-0.0-0.5	CHRYSENE	J	0.57	1.7	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	0.88	1.7	PQL	ug/Kg	
SL-240-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.81	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.96	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-309-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.52	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.6	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.5	19	PQL	ug/Kg	
SL-310-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.40	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.82	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.8	PQL	ug/Kg	
SL-311-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	6.2	9.0	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	4.9	9.0	PQL	ug/Kg	
SL-312-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	6.1	8.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	4.6	8.8	PQL	ug/Kg	
	ANTHRACENE	J	1.9	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	8.4	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	6.4	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	4.7	8.8	PQL	ug/Kg	

LDC #: 25550A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/11
SDG #: DE038 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg >4x)
VII.	Duplicate Sample Analysis	N	Dup L: <5x
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (A) [Ba, Ca, V]
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	DUP05-SA5B-QC-121410	11	SL-098-SA5B-SS-0.0-0.5	21	SL-120-SA5B-SS-0.0-0.5MS	31	
2	SL-120-SA5B-SS-0.0-0.5	12	SL-142-SA5B-SS-0.0-0.5	22	SL-120-SA5B-SS-0.0-0.5MSD	32	
3	SL-108-SA5B-SS-0.0-0.5	13	SL-143-SA5B-SS-0.0-0.5	23	SL-120-SA5B-SS-0.0-0.5DUP	33	
4	SL-119-SA5B-SS-0.0-0.5	14	SL-123-SA5B-SS-0.0-0.5	24		34	
5	SL-240-SA5B-SS-0.0-0.5	15	SL-124-SA5B-SS-0.0-0.5	25		35	
6	SL-109-SA5B-SS-0.0-0.5	16	SL-309-SA5B-SS-0.0-0.5	26		36	
7	SL-122-SA5B-SS-0.0-0.5	17	SL-311-SA5B-SS-0.0-0.5	27		37	
8	SL-121-SA5B-SS-0.0-0.5	18	SL-310-SA5B-SS-0.0-0.5	28		38	
9	SL-054-SA5B-SS-0.0-0.5	19	SL-312-SA5B-SS-0.0-0.5	29		39	
10	SL-105-SA5B-SS-0.0-0.5	20	SED-025-SIV-SD-0.0-0.5	30		40	

Notes:

LDC #: 25550A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-20		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		~~Sb, As~~, Ba, Be, ~~Cd, Cr~~, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25550A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x ICPMS (2dil)
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Reason: B

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1																
Sn	3.5	1.75	1.7																

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 9
SERIAL DILUTIONS
SDG No.: DE038
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6164622BKG Serial Dilution Lab Sample ID: 6164622L
Batch ID(s): P35108H, P35126C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		75083.8600		75125.5500		0		P
Antimony	121	0.7505	B	1.5000	U	100		MS
Arsenic	75	15.3700		14.9150		3		MS
Barium	137	232.8000		259.7500		12	E	MS
Beryllium	9	1.4260		1.4850	B	4		MS
Boron		57.2600		78.4000	B	37		P
Cadmium	111	0.5862		1.1705	B	100		MS
Calcium		20054.8600		20420.0500		2		P
Chromium	52	40.9000		43.1200		5		MS
Cobalt	59	18.2500		22.7950		25	E	MS
Copper	63	27.5000		29.9350		9		MS
Iron		101220.8000		104403.4000		3		P
Lead	208	28.3600		31.2850		10		MS
Lithium		73.3000		89.0500	B	21		P
Magnesium		17870.5800		17791.9000		0		P
Manganese		1270.6400		1351.8500		6		P
Molybdenum	98	1.5020		1.7045	B	13		MS
Nickel	60	26.6000		30.8550		16		MS
Phosphorus		2627.6600		2747.8500		5		P
Potassium		13921.1800		13905.4500		0		P
Selenium	78	0.7048	B	1.0000	U	100		MS
Silver	107	0.0748	B	0.3000	U	100		MS
Sodium		481.7800	B	1865.0000	U	100		P
Strontium		242.6000		246.0500		1		P
Thallium	203	0.4885	B	0.7500	U	100		MS
Tin		20.8800	B	50.0000	U	100		P
Titanium		3909.2500		4013.4000		3		P
Vanadium	51	84.8300		103.1500		22	E	MS
Zinc	66	127.3000		129.7500		2		MS
Zirconium		21.0000	B	42.0000	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.

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

DE038 3943

SAMPLE DELIVERY GROUP

DE039

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-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3050B	6010B	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3050B	6020	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3060A	7199	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3546	1625C	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3550B	8015B	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3550B	8015M	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3550B	8082	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3550B	8270C	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	3550B	8270C SIM	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	5035	8015M	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	5035	8260B	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	5035	8260B SIM	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	8330	8330A	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	Gen Prep	8315M	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	Gen Prep	9045M	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	300.0	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	314.0	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	7471A	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	8015B	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	8015M	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	8315A	III
02-Dec-2010	DUP10-SA5C-QC-120210	6154849	FD	METHOD	9012B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3050B	6010B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3050B	6020	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3060A	7199	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3550B	8015B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3550B	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3550B	8082	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3550B	8270C	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	3550B	8270C SIM	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	5035	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	5035	8260B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	5035	8260B SIM	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	8330	8330A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	Gen Prep	8315M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	Gen Prep	9045M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	300.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	314.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	7471A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	8015B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	8315A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5	6154843	N	METHOD	9012B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3050B	6010B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3050B	6020	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3060A	7199	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3546	1625C	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3550B	8015B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3550B	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3550B	8082	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	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
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	3550B	8270C SIM	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	5035	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	5035	8260B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	5035	8260B SIM	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	8330	8330A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	Gen Prep	8315M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	300.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	314.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	7471A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	8015B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	8315A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MS	6154844	MS	METHOD	9012B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3050B	6010B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3050B	6020	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3546	1625C	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3550B	8015B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3550B	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3550B	8082	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3550B	8270C	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	3550B	8270C SIM	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	5035	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	5035	8260B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	5035	8260B SIM	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	8330	8330A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	Gen Prep	8315M	III

III = EPA Level 3 Data Review *N = 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-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	METHOD	314.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	METHOD	7471A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	METHOD	8015B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	METHOD	8015M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5MSD	6154845	MSD	METHOD	8315A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	3050B	6010B	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	3050B	6020	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	3060A	7199	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	Gen Prep	9045M	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	METHOD	300.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	METHOD	314.0	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	METHOD	7471A	III
02-Dec-2010	SL-037-SA5C-SB-3.5-4.5DUP	6154846	DUP	METHOD	9012B	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	3050B	6010B	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	3050B	6020	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	3060A	7199	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	3550B	8082	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	3550B	8270C	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	3550B	8270C SIM	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	5035	8260B	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	5035	8260B SIM	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	Gen Prep	9045M	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	METHOD	300.0	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	METHOD	314.0	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0	6154851	N	METHOD	7471A	III
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0DUP	P154851D271411A	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
02-Dec-2010	SL-040-SA5C-SB-4.0-5.0MS	P154851R271426A	MS	METHOD	300.0	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	3050B	6010B	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	3050B	6020	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	3060A	7199	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	3550B	8082	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	3550B	8270C	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	3550B	8270C SIM	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	Gen Prep	9045M	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	METHOD	300.0	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	METHOD	314.0	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	METHOD	6850	III
02-Dec-2010	SL-040-SA5C-SB-9.0-10.0	6154852	N	METHOD	7471A	III
02-Dec-2010	TB-120210	6154850	TB	5030B	8015M	III
02-Dec-2010	TB-120210	6154850	TB	5030B	8260B	III
02-Dec-2010	TB-120210	6154850	TB	5030B	8260B SIM	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3050B	6010B	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3050B	6020	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3060A	7199	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3546	1625C	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3550B	8015B	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3550B	8015M	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3550B	8082	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3550B	8270C	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	3550B	8270C SIM	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	5035	8015M	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	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
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	5035	8260B SIM	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	8330	8330A	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	Gen Prep	9045M	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	300.0	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	314.0	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	6850	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	7471A	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	8015B	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	8015M	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	8315A	III
02-Dec-2010	SL-039-SA5C-SB-4.0-5.0	6154847	N	METHOD	9012B	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	3050B	6010B	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	3050B	6020	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	3060A	7199	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	3550B	8082	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	3550B	8270C	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	3550B	8270C SIM	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	5035	8260B	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	5035	8260B SIM	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	Gen Prep	9045M	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	METHOD	300.0	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	N	METHOD	314.0	III
02-Dec-2010	SL-036-SA5C-SB-4.0-5.0	6154848	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: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-039-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 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	1.4	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 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
PERCHLORATE	11.5	U	11.5	MDL	38.4	PQL	ug/Kg	UJ	FD

Sample ID: SL-036-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 4:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	21.9	J	10.3	MDL	34.5	PQL	ug/Kg	J	Z

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	11.3	J	10.3	MDL	34.2	PQL	ug/Kg	J	Z, FD

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 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	46300		29.3	MDL	124	PQL	mg/Kg	J	FD

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 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
ALUMINUM	33000		6.25	MDL	24.9	PQL	mg/Kg	J	FD
CALCIUM	8060		7.62	MDL	24.9	PQL	mg/Kg	J	FD, A
LITHIUM	65.9		0.27	MDL	2.5	PQL	mg/Kg	J	FD
MAGNESIUM	8570		3.16	MDL	12.4	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 **Laboratory:** LL

EDD Filename: PrepDE027_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 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
PHOSPHORUS	552		0.696	MDL	12.4	PQL	mg/Kg	J	Q, E
SODIUM	464		46.4	MDL	124	PQL	mg/Kg	J	FD
STRONTIUM	38.6		0.0771	MDL	0.622	PQL	mg/Kg	J	FD
TIN	4.25	J	1.24	MDL	12.4	PQL	mg/Kg	U	B
Zirconium	7.64		1.04	MDL	6.22	PQL	mg/Kg	J	FD

Sample ID: SL-036-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 4:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1950		6.84	MDL	22.3	PQL	mg/Kg	J	A
PHOSPHORUS	103		0.625	MDL	11.2	PQL	mg/Kg	J	Q, E
TIN	2.82	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.34	J	0.937	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10400		5.57	MDL	22.2	PQL	mg/Kg	J	FD
CALCIUM	3030		6.79	MDL	22.2	PQL	mg/Kg	J	FD, A
IRON	19200		5.22	MDL	22.2	PQL	mg/Kg	J	FD
LITHIUM	27.3		0.24	MDL	2.2	PQL	mg/Kg	J	FD
MAGNESIUM	4050		2.82	MDL	11.1	PQL	mg/Kg	J	FD
PHOSPHORUS	422		0.621	MDL	11.1	PQL	mg/Kg	J	Q, E
SODIUM	102	J	41.3	MDL	111	PQL	mg/Kg	J	Z, FD
STRONTIUM	13.4		0.0687	MDL	0.554	PQL	mg/Kg	J	FD
TIN	2.88	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.81	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z, FD

Sample ID: SL-039-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 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
CALCIUM	1870		6.54	MDL	21.3	PQL	mg/Kg	J	A
PHOSPHORUS	80.6		0.597	MDL	10.7	PQL	mg/Kg	J	Q, E
TIN	2.56	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.74	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-040-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 12:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1840		6.91	MDL	22.6	PQL	mg/Kg	J	A
PHOSPHORUS	80.6		0.631	MDL	11.3	PQL	mg/Kg	J	Q, E
SODIUM	105	J	42.1	MDL	113	PQL	mg/Kg	J	Z
TIN	2.62	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.00	J	0.947	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5C-SB-9.0-10.0 *Collected:* 12/2/2010 12:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2150		6.92	MDL	22.6	PQL	mg/Kg	J	A
PHOSPHORUS	129		0.633	MDL	11.3	PQL	mg/Kg	J	Q, E
TIN	2.84	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.00	J	0.949	MDL	5.65	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 9:42:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.155		0.0452	MDL	0.126	PQL	mg/Kg	J	Q, FD

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 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	0.116	J	0.0502	MDL	0.502	PQL	mg/Kg	J	Z

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 9:42:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	214		0.136	MDL	0.502	PQL	mg/Kg	J	E, FD, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 **Laboratory:** LL

EDD Filename: PrepDE027_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP10-SA5C-QC-120210 ***Collected:*** 12/2/2010 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	0.240	J	0.0753	MDL	0.251	PQL	mg/Kg	J	Z, Q
ARSENIC	14.6		0.0753	MDL	0.502	PQL	mg/Kg	J	E, A
BERYLLIUM	1.59		0.0201	MDL	0.126	PQL	mg/Kg	J	FD
CHROMIUM	49.3		0.151	MDL	0.502	PQL	mg/Kg	J	Q, E, FD
COBALT	16.9		0.0251	MDL	0.126	PQL	mg/Kg	J	FD
COPPER	25.9		0.0829	MDL	0.502	PQL	mg/Kg	J	Q, E, FD
LEAD	16.7		0.0131	MDL	0.251	PQL	mg/Kg	J	E, FD, A
NICKEL	34.9		0.126	MDL	0.502	PQL	mg/Kg	J	FD
SILVER	0.0523	J	0.0151	MDL	0.126	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.701		0.0377	MDL	0.126	PQL	mg/Kg	J	FD
VANADIUM	76.7		0.0276	MDL	0.126	PQL	mg/Kg	J	Q, E, FD
ZINC	145		0.703	MDL	3.77	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5C-SB-4.0-5.0 ***Collected:*** 12/2/2010 4:10:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0460	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5C-SB-4.0-5.0 ***Collected:*** 12/2/2010 4:10:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.283		0.0558	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-036-SA5C-SB-4.0-5.0 ***Collected:*** 12/2/2010 4:10:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.6		0.121	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-036-SA5C-SB-4.0-5.0 ***Collected:*** 12/2/2010 4:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0937	J	0.0670	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	6.24		0.0670	MDL	0.446	PQL	mg/Kg	J	E, A
CHROMIUM	21.7		0.134	MDL	0.446	PQL	mg/Kg	J	Q, E
COPPER	7.08		0.0737	MDL	0.446	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-036-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 4:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	7.06		0.0116	MDL	0.223	PQL	mg/Kg	J	E, A
VANADIUM	42.4		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	52.2		0.625	MDL	3.35	PQL	mg/Kg	J	E

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0937	J	0.0448	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.231		0.0560	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.121	MDL	0.448	PQL	mg/Kg	J	E, FD, A

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.220	J	0.0672	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	14.4		0.0672	MDL	0.448	PQL	mg/Kg	J	E, A
BERYLLIUM	0.525		0.0179	MDL	0.112	PQL	mg/Kg	J	FD
CADMIUM	0.0845	J	0.0403	MDL	0.112	PQL	mg/Kg	J	Z, Q, FD
CHROMIUM	22.2		0.134	MDL	0.448	PQL	mg/Kg	J	Q, E, FD
COBALT	6.50		0.0224	MDL	0.112	PQL	mg/Kg	J	FD
COPPER	11.4		0.0739	MDL	0.448	PQL	mg/Kg	J	Q, E, FD
LEAD	6.17		0.0116	MDL	0.224	PQL	mg/Kg	J	E, FD, A
NICKEL	15.6		0.112	MDL	0.448	PQL	mg/Kg	J	FD
SILVER	0.0134	U	0.0134	MDL	0.112	PQL	mg/Kg	UJ	FD
THALLIUM	0.417		0.0336	MDL	0.112	PQL	mg/Kg	J	FD
VANADIUM	43.6		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, E, FD
ZINC	93.0		0.627	MDL	3.36	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-039-SA5C-SB-4.0-5.0 **Collected:** 12/2/2010 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	0.0642	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-039-SA5C-SB-4.0-5.0 **Collected:** 12/2/2010 2:49:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.301		0.0518	MDL	0.104	PQL	mg/Kg	U	B

Sample ID: SL-039-SA5C-SB-4.0-5.0 **Collected:** 12/2/2010 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	90.5		0.112	MDL	0.414	PQL	mg/Kg	J	E, A

Sample ID: SL-039-SA5C-SB-4.0-5.0 **Collected:** 12/2/2010 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	0.0992	J	0.0622	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.81		0.0622	MDL	0.414	PQL	mg/Kg	J	E, A
CADMIUM	0.0489	J	0.0373	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	19.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E
COPPER	7.73		0.0684	MDL	0.414	PQL	mg/Kg	J	Q, E
LEAD	5.27		0.0108	MDL	0.207	PQL	mg/Kg	J	E, A
SILVER	0.0228	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
VANADIUM	37.4		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	49.1		0.580	MDL	3.11	PQL	mg/Kg	J	E

Sample ID: SL-040-SA5C-SB-4.0-5.0 **Collected:** 12/2/2010 12:19:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0630	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5C-SB-4.0-5.0 **Collected:** 12/2/2010 12:19:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.355		0.0553	MDL	0.111	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-040-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 12:19:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.119	MDL	0.442	PQL	mg/Kg	J	E, A

Sample ID: SL-040-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 12:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0910	J	0.0663	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	6.32		0.0663	MDL	0.442	PQL	mg/Kg	J	E, A
CADMIUM	0.116		0.0398	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	23.2		0.133	MDL	0.442	PQL	mg/Kg	J	Q, E
COPPER	7.13		0.0730	MDL	0.442	PQL	mg/Kg	J	Q, E
LEAD	6.49		0.0115	MDL	0.221	PQL	mg/Kg	J	E, A
SILVER	0.0487	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
VANADIUM	45.5		0.0243	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	48.7		0.619	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: SL-040-SA5C-SB-9.0-10.0 *Collected:* 12/2/2010 12:26:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.2		0.122	MDL	0.452	PQL	mg/Kg	J	E, A

Sample ID: SL-040-SA5C-SB-9.0-10.0 *Collected:* 12/2/2010 12:26:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0678	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	7.58		0.0678	MDL	0.452	PQL	mg/Kg	J	E, A
CHROMIUM	22.4		0.136	MDL	0.452	PQL	mg/Kg	J	Q, E
COPPER	8.56		0.0745	MDL	0.452	PQL	mg/Kg	J	Q, E
LEAD	6.11		0.0117	MDL	0.226	PQL	mg/Kg	J	E, A
SILVER	0.0520	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z, Q
VANADIUM	43.6		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, E
ZINC	44.9		0.633	MDL	3.39	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-039-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 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	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA5C-SB-9.0-10.0 *Collected:* 12/2/2010 12:26:00 *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 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
MERCURY	0.0203	J	0.0034	MDL	0.120	PQL	mg/Kg	J	Z, FD

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0032	U	0.0032	MDL	0.113	PQL	mg/Kg	UJ	FD

Sample ID: SL-040-SA5C-SB-9.0-10.0 *Collected:* 12/2/2010 12:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0057	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C Matrix: SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 9:42:00 *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	304		21.3	MDL	42.7	PQL	ng/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	150		19.0	MDL	38.1	PQL	ng/Kg	J	FD

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 9:42:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.1	J	0.51	MDL	1.5	PQL	mg/Kg	J	Z, FD
EFH (C30-C40)	6.5		0.51	MDL	1.5	PQL	mg/Kg	J	FD

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.46	U	0.46	MDL	1.4	PQL	mg/Kg	UJ	FD
EFH (C30-C40)	1.6		0.46	MDL	1.4	PQL	mg/Kg	J	FD

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP10-SA5C-QC-120210 *Collected:* 12/2/2010 9:42:00 *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	0.84	J	0.30	MDL	4.9	PQL	ug/Kg	U	B

Sample ID: SL-036-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 4:10:00 *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	0.74	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-037-SA5C-SB-3.5-4.5 *Collected:* 12/2/2010 9:47:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.53	J	0.28	MDL	4.6	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: PrepDE027_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-039-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 2:49:00 *Analysis Type:* RES *Dilution:* 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.57	J	0.27	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-040-SA5C-SB-4.0-5.0 *Collected:* 12/2/2010 12:19:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.5	J	7.0	MDL	8.3	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.74	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE027

Method Blank Outlier Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: DE027_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34008DB221236	12/8/2010 12:36:00 PM	ALUMINUM CALCIUM IRON PHOSPHORUS TIN	6.51 mg/Kg 66.1 mg/Kg 5.56 mg/Kg 0.811 mg/Kg 1.29 mg/Kg	DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-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-SA5C-QC-120210(RES)	TIN	4.25 mg/Kg	4.25U mg/Kg
SL-036-SA5C-SB-4.0-5.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-037-SA5C-SB-3.5-4.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-039-SA5C-SB-4.0-5.0(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-040-SA5C-SB-4.0-5.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-040-SA5C-SB-9.0-10.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34026CB220943A	12/9/2010 9:43:00 AM	VANADIUM	0.0357 mg/Kg	DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0
P34026CB220943C	12/9/2010 9:43:00 AM	MOLYBDENUM	0.0723 mg/Kg	DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-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-036-SA5C-SB-4.0-5.0(REA3)	MOLYBDENUM	0.283 mg/Kg	0.283U mg/Kg
SL-037-SA5C-SB-3.5-4.5(REA3)	MOLYBDENUM	0.231 mg/Kg	0.231U mg/Kg
SL-039-SA5C-SB-4.0-5.0(REA3)	MOLYBDENUM	0.301 mg/Kg	0.301U mg/Kg
SL-040-SA5C-SB-4.0-5.0(REA3)	MOLYBDENUM	0.355 mg/Kg	0.355U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB07B211623A	12/6/2010 4:23:00 PM	METHYLENE CHLORIDE	0.40 ug/Kg	DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: DE027_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
DUP10-SA5C-QC-120210(RES)	METHYLENE CHLORIDE	0.84 ug/Kg	4.9U ug/Kg
SL-036-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.74 ug/Kg	4.1U ug/Kg
SL-037-SA5C-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	0.53 ug/Kg	4.6U ug/Kg
SL-039-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.57 ug/Kg	4.4U ug/Kg
SL-040-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.74 ug/Kg	4.2U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: DE027_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-037-SA5C-SB-3.5-4.5MSD (SL-037-SA5C-SB-3.5-4.5)	DIETHYLENE GLYCOL	-	-	59.00-109.00	37 (20.00)	DIETHYLENE GLYCOL	J (all detects)
SL-037-SA5C-SB-3.5-4.5MSD (SL-037-SA5C-SB-3.5-4.5)	EFH (C8-C11)	-	-	49.00-123.00	21 (20.00)	EFH (C8-C11)	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	CADMIUM SILVER	128 -	- 129	75.00-125.00 75.00-125.00	- -	CADMIUM SILVER	J(all detects)
SL-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	ARSENIC ZINC	-138 -84	-26 -56	75.00-125.00 75.00-125.00	- -	ARSENIC ZINC	No Qual, >4x
SL-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	ANTIMONY CHROMIUM COPPER VANADIUM	51 67 74 38	53 - - 55	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY CHROMIUM COPPER VANADIUM	J(all detects) UJ(all non-detects)
SL-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	BARIUM	-175	-58	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-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	764 177 167 317	792 - - 294	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: DE027_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-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	IRON PHOSPHORUS	61 -	457 2270	75.00-125.00 75.00-125.00	- 138 (20.00)	IRON PHOSPHORUS	J(all detects) UJ(all non-detects) Fe No Qual, >4x

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-037-SA5C-SB-3.5-4.5MS SL-037-SA5C-SB-3.5-4.5MSD (SL-037-SA5C-SB-3.5-4.5)	Chlorotrifluoroethylene	154	155	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: DE027_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5C-SB-3.5-4.5DUP (DUP10-SA5C-QC-120210 SL-039-SA5C-SB-4.0-5.0)	MOISTURE	32		No Qual % Moisture not validated

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5C-SB-3.5-4.5DUP (SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0)	Nitrate-NO3	58	20.00	No Qual Ok by difference

Method: 314.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5C-SB-3.5-4.5DUP (SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0)	PERCHLORATE	200	20.00	No Qual, Ok by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5C-SB-3.5-4.5DUP (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	Zirconium	26	20.00	No Qual, Ok by difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5C-SB-3.5-4.5DUP (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	ANTIMONY	67	20.00	
	ARSENIC	48	20.00	
	BARIUM	37	20.00	
	BERYLLIUM	21	20.00	
	CHROMIUM	24	20.00	
	COPPER	27	20.00	J(all detects)
	LEAD	30	20.00	UJ(all non-detects)
	MOLYBDENUM	28	20.00	
	SELENIUM	36	20.00	Sb, Be, Mo, Se, Tl, Zr
	THALLIUM	44	20.00	No Qual,
	VANADIUM	22	20.00	Ok by difference
	ZINC	28	20.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: DE027_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-037-SA5C-SB-3.5-4.5DUP (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	HEXAVALENT CHROMIUM	200	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-040-SA5C-SB-4.0-5.0DUP (DUP10-SA5C-QC-120210 SL-040-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-9.0-10.0)	FLUORIDE	200	20.00	No Qual, Ok by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: DE027_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
LCSY29Y211328A (TB-120210)	1,2-DIBROMO-3-CHLOROPROP	-	126	66.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B07Q211711A (DUP10-SA5C-QC-120210 SL-036-SA5C-SB-4.0-5.0 SL-037-SA5C-SB-3.5-4.5 SL-039-SA5C-SB-4.0-5.0 SL-040-SA5C-SB-4.0-5.0)	Chlorotrifluoroethylene	141	-	22.00-131.00	-	Chlorotrifluoroethylene	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
MOISTURE	12.4	21.9	55		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
N-NITROSODIMETHYLAMINE	150	304	68	50.00	J(all detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
FLUORIDE	5.1	5.5	8	50.00	No Qualifiers Applied
Nitrate-NO3	2.6	2.2	17	50.00	

Method: 314.0
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
PERCHLORATE	11.3	38.4 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-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
BORON	11.5	15.5	30	50.00	No Qualifiers Applied
MANGANESE	270	382	34	50.00	
PHOSPHORUS	422	552	27	50.00	
POTASSIUM	2000	2520	23	50.00	
TIN	2.88	4.25	38	50.00	
TITANIUM	1480	1890	24	50.00	
ALUMINUM	10400	33000	104	50.00	J(all detects)
CALCIUM	3030	8060	91	50.00	
IRON	19200	46300	83	50.00	
LITHIUM	27.3	65.9	83	50.00	
MAGNESIUM	4050	8570	72	50.00	
SODIUM	102	464	128	50.00	
STRONTIUM	13.4	38.6	97	50.00	
Zirconium	3.81	7.64	67	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
ANTIMONY	0.220	0.240	9	50.00	No Qualifiers Applied
ARSENIC	14.4	14.6	1	50.00	
MOLYBDENUM	0.231	0.385	50	50.00	
SELENIUM	0.0937	0.116	21	50.00	
ZINC	93.0	145	44	50.00	
BARIUM	122	214	55	50.00	J(all detects) UJ(all non-detects)
BERYLLIUM	0.525	1.59	101	50.00	
CADMIUM	0.0845	0.155	59	50.00	
CHROMIUM	22.2	49.3	76	50.00	
COBALT	6.50	16.9	89	50.00	
COPPER	11.4	25.9	78	50.00	
LEAD	6.17	16.7	92	50.00	
NICKEL	15.6	34.9	76	50.00	
SILVER	0.112 U	0.0523	200	50.00	
THALLIUM	0.417	0.701	51	50.00	
VANADIUM	43.6	76.7	55	50.00	

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
MERCURY	0.113 U	0.0203	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
EFH (C21-C30)	1.4 U	1.1	200	50.00	J(all detects) UJ(all non-detects)
EFH (C30-C40)	1.6	6.5	121	50.00	

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
METHYLENE CHLORIDE	0.53	0.84	45	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
PH	7.02	7.99	13	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: PrepDE027_v1 **eQAPP Name: CDM_SSFL_110509**

Method: ASTM D1498
Matrix: SO

Analyte	*Concentration (mV)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	SL-037-SA5C-SB-3.5-4.5	DUP10-SA5C-QC-120210			
Oxidation Reduction Potential	465	459	1		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE027 Laboratory: LL

EDD Filename: DE027_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5C-SB-4.0-5.0	PERCHLORATE	J	21.9	34.5	PQL	ug/Kg	J (all detects)
SL-037-SA5C-SB-3.5-4.5	PERCHLORATE	J	11.3	34.2	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5C-QC-120210	TIN	J	4.25	12.4	PQL	mg/Kg	J (all detects)
SL-036-SA5C-SB-4.0-5.0	TIN	J	2.82	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.34	5.58	PQL	mg/Kg	
SL-037-SA5C-SB-3.5-4.5	SODIUM	J	102	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	11.1	PQL	mg/Kg	
	Zirconium	J	3.81	5.54	PQL	mg/Kg	
SL-039-SA5C-SB-4.0-5.0	TIN	J	2.56	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.74	5.33	PQL	mg/Kg	
SL-040-SA5C-SB-4.0-5.0	SODIUM	J	105	113	PQL	mg/Kg	J (all detects)
	TIN	J	2.62	11.3	PQL	mg/Kg	
	Zirconium	J	3.00	5.64	PQL	mg/Kg	
SL-040-SA5C-SB-9.0-10.0	TIN	J	2.84	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.00	5.65	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5C-QC-120210	ANTIMONY	J	0.240	0.251	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.116	0.502	PQL	mg/Kg	
	SILVER	J	0.0523	0.126	PQL	mg/Kg	
SL-036-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0937	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0460	0.446	PQL	mg/Kg	
SL-037-SA5C-SB-3.5-4.5	ANTIMONY	J	0.220	0.224	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0845	0.112	PQL	mg/Kg	
	SELENIUM	J	0.0937	0.448	PQL	mg/Kg	
SL-039-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0992	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0489	0.104	PQL	mg/Kg	
	SELENIUM	J	0.0642	0.414	PQL	mg/Kg	
	SILVER	J	0.0228	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE027 **Laboratory: LL**

EDD Filename: DE027_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0910	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0630	0.442	PQL	mg/Kg	
	SILVER	J	0.0487	0.111	PQL	mg/Kg	
SL-040-SA5C-SB-9.0-10.0	ANTIMONY	J	0.144	0.226	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0520	0.113	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-040-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5C-QC-120210	MERCURY	J	0.0203	0.120	PQL	mg/Kg	J (all detects)
SL-040-SA5C-SB-9.0-10.0	MERCURY	J	0.0057	0.114	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5C-QC-120210	EFH (C21-C30)	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5C-QC-120210	METHYLENE CHLORIDE	J	0.84	4.9	PQL	ug/Kg	J (all detects)
SL-036-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.74	4.1	PQL	ug/Kg	J (all detects)
SL-037-SA5C-SB-3.5-4.5	METHYLENE CHLORIDE	J	0.53	4.6	PQL	ug/Kg	J (all detects)
SL-039-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.57	4.4	PQL	ug/Kg	J (all detects)
SL-040-SA5C-SB-4.0-5.0	ACETONE	J	7.5	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.74	4.2	PQL	ug/Kg	

LDC #: 25337A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-4-11
SDG #: DE027 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	ICB/CCB hits — No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, As, Ba, Ca, Fe, Mg, Mn, Ti, Zn 74X)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Be, Mo, Se, Zr, Tl <5x RL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (As Ba Ca Pb)
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-037-SA5C-SB-3.5-4.5	11		21		31	
2	SL-039-SA5C-SB-4.0-5.0	12		22		32	
3	SL-036-SA5C-SB-4.0-5.0	13		23		33	
4	DUP10-SA5C-QC-120210	14		24		34	
5	SL-040-SA5C-SB-4.0-5.0	15		25		35	
6	SL-040-SA5C-SB-9.0-10.0	16		26		36	
7	SL-037-SA5C-SB-3.5-4.5MS	17		27		37	
8	SL-037-SA5C-SB-3.5-4.5MSD	18		28		38	
9	SL-037-SA5C-SB-3.5-4.5DUP	19		29		39	
10		20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE027
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6154843BKG Serial Dilution Lab Sample ID: 6154843L
Batch ID(s): P34008D, P34026C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		93573.2200		90672.9500		3		P
Antimony	121	0.9813	B	1.5000	U	100		MS
Arsenic	75	64.1800		55.8000		13	E	MS
Barium	137	543.8000		482.8000		11	E	MS
Beryllium	9	2.3470		2.3630	B	1		MS
Boron		104.1700		142.1000	B	36		P
Cadmium	111	0.3777	B	0.9000	U	100		MS
Calcium		27372.8100		31145.4000		14	E	P
Chromium	52	99.3400		102.2500		3		MS
Cobalt	59	29.0600		27.8150		4		MS
Copper	63	51.1400		50.8000		1		MS
Iron		173337.3000		173215.0500		0		P
Lead	208	27.5700		24.2000		12	E	MS
Lithium		246.2500		262.4500		7		P
Magnesium		36566.4600		38195.6500		4		P
Manganese		2432.2800		2547.9000		5		P
Molybdenum	98	1.0310		1.4775	B	43		MS
Nickel	60	69.6000		73.3000		5		MS
Phosphorus		3807.8600		3798.1500		0		P
Potassium		18086.3700		18416.4000		2		P
Selenium	78	0.4186	B	1.0000	U	100		MS
Silver	107	0.0600	U	0.3000	U			MS
Sodium		916.9800	B	1865.0000	U	100		P
Strontium		120.5300		122.5000		2		P
Thallium	203	1.8630		1.7210	B	8		MS
Tin		26.0000	B	50.0000	U	100		P
Titanium		2675.1100		2643.7500		1		P
Vanadium	51	194.9000		191.2500		2		MS
Zinc	66	415.7000		374.8000		10		MS
Zirconium		34.3500	B	42.0000	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.

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

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-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3050B	6010B	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3050B	6020	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3060A	7199	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3546	1625C	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3550B	8015B	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3550B	8015M	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3550B	8082	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3550B	8270C	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	3550B	8270C SIM	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	5035	8015M	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	5035	8260B	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	5035	8260B SIM	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	8330	8330A	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	Gen Prep	9045M	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	300.0	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	314.0	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	7471A	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	8015B	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	8015M	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	8315A	III
03-Dec-2010	SL-030-SA5C-SB-4.0-5.0	6156143	N	METHOD	9012B	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3050B	6010B	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3050B	6020	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3060A	7199	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3546	1625C	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	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
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3550B	8015M	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3550B	8082	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3550B	8270C	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	3550B	8270C SIM	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	5035	8015M	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	5035	8260B	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	5035	8260B SIM	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	8330	8330A	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	Gen Prep	9045M	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	300.0	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	314.0	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	7471A	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	8015B	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	8015M	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	8315A	III
03-Dec-2010	SL-030-SA5C-SB-9.0-10.0	6156142	N	METHOD	9012B	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3050B	6010B	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3050B	6020	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3060A	7199	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3546	1625C	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3550B	8015B	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3550B	8015M	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3550B	8082	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3550B	8270C	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	3550B	8270C SIM	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	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
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	5035	8260B	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	5035	8260B SIM	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	8330	8330A	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	Gen Prep	9045M	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	300.0	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	314.0	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	7471A	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	8015B	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	8015M	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	8315A	III
03-Dec-2010	SL-031-SA5C-SB-4.0-5.0	6156145	N	METHOD	9012B	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3050B	6010B	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3050B	6020	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3060A	7199	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3546	1625C	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3550B	8015B	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3550B	8015M	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3550B	8082	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3550B	8270C	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	3550B	8270C SIM	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	5035	8015M	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	5035	8260B	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	5035	8260B SIM	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	8330	8330A	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	Gen Prep	9045M	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	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-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	314.0	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	6850	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	7471A	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	8015B	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	8015M	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	8315A	III
03-Dec-2010	SL-031-SA5C-SB-9.0-10.0	6156144	N	METHOD	9012B	III
03-Dec-2010	TB-120310	6156151	TB	5030B	8015M	III
03-Dec-2010	TB-120310	6156151	TB	5030B	8260B	III
03-Dec-2010	TB-120310	6156151	TB	5030B	8260B SIM	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3050B	6010B	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3050B	6020	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3060A	7199	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3546	1625C	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3550B	8015B	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3550B	8015M	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3550B	8082	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3550B	8270C	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	3550B	8270C SIM	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	5035	8015M	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	5035	8260B	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	5035	8260B SIM	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	8330	8330A	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	Gen Prep	9045M	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	300.0	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	314.0	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
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	7471A	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	8015B	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	8015M	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	8315A	III
03-Dec-2010	DUP11-SA5C-QC-120310	6156150	FD	METHOD	9012B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3050B	6010B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3050B	6020	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3060A	7199	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3546	1625C	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3550B	8015B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3550B	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3550B	8082	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3550B	8270C	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	3550B	8270C SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	5035	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	5035	8260B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	5035	8260B SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	8330	8330A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	Gen Prep	9045M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	300.0	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	314.0	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	7471A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	8015B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	8315A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0	6156146	N	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3050B	6010B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3050B	6020	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3060A	7199	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3546	1625C	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3550B	8015B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3550B	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3550B	8082	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3550B	8270C	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	3550B	8270C SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	5035	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	5035	8260B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	5035	8260B SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	8330	8330A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	300.0	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	314.0	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	7471A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	8015B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	8315A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	6156147	MS	METHOD	9012B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3050B	6010B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3050B	6020	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3546	1625C	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3550B	8015B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3550B	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3550B	8082	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3550B	8270C	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	3550B	8270C SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	5035	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	5035	8260B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	5035	8260B SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	8330	8330A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	METHOD	7471A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	METHOD	8015B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	METHOD	8015M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	6156148	MSD	METHOD	8315A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	3050B	6010B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	3050B	6020	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	3060A	7199	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	Gen Prep	9045M	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	METHOD	300.0	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	METHOD	314.0	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	METHOD	7471A	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0DUP	6156149	DUP	METHOD	9012B	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MSD	P156146M212000B	MSD	5035	8260B SIM	III
03-Dec-2010	SL-032-SA5C-SB-4.0-5.0MS	P156146R211940B	MS	5035	8260B SIM	III

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Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.5		0.87	MDL	1.1	PQL	mg/Kg	J	FD
Nitrate-NO3	4.3		0.87	MDL	1.6	PQL	mg/Kg	J	FD

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.9		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E, FD
Nitrate-NO3	1.7		0.87	MDL	1.6	PQL	mg/Kg	J	Q, FD

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	16.3	J	10.1	MDL	33.8	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	7.82		0.939	MDL	5.28	PQL	mg/Kg	J	FD
TIN	2.63	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.22	J	0.886	MDL	5.28	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory:** LL

EDD Filename: PrepDE028_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23000		4.97	MDL	21.1	PQL	mg/Kg	J	A
POTASSIUM	2090		19.0	MDL	52.8	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 10:36:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.18	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.64	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 10:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19400		5.08	MDL	21.6	PQL	mg/Kg	J	A
POTASSIUM	3810		19.4	MDL	53.9	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 10:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.86	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	1.64	J	0.945	MDL	5.63	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 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
IRON	21200		5.30	MDL	22.5	PQL	mg/Kg	J	A
POTASSIUM	1940		20.3	MDL	56.3	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.85	J	0.983	MDL	5.52	PQL	mg/Kg	J	Z
TIN	2.97	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18600		5.20	MDL	22.1	PQL	mg/Kg	J	A
POTASSIUM	3690		19.9	MDL	55.2	PQL	mg/Kg	J	Q
SODIUM	92.4	J	41.2	MDL	110	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.91	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.955	MDL	5.68	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	29600		5.35	MDL	22.7	PQL	mg/Kg	J	A
POTASSIUM	1780		20.5	MDL	56.8	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.928	U	0.928	MDL	5.21	PQL	mg/Kg	UJ	FD
TIN	3.20	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.876	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24900		4.91	MDL	20.9	PQL	mg/Kg	J	A
POTASSIUM	1970		18.8	MDL	52.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory:** LL

EDD Filename: PrepDE028_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z, Q

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.834		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.115	MDL	0.426	PQL	mg/Kg	J	E

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0639	U	0.0639	MDL	0.213	PQL	mg/Kg	UJ	Q, FD
ARSENIC	8.20		0.0639	MDL	0.426	PQL	mg/Kg	J	Q, E, E
BERYLLIUM	0.853		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.0623	J	0.0384	MDL	0.107	PQL	mg/Kg	UJ	Q, B
CHROMIUM	25.7		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E
COBALT	4.49		0.0213	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	9.56		0.0703	MDL	0.426	PQL	mg/Kg	J	Q, E, A
LEAD	8.17		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	11.3		0.107	MDL	0.426	PQL	mg/Kg	J	Q, E
SILVER	0.0279	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.396		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	44.0		0.0234	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	56.6		0.597	MDL	3.20	PQL	mg/Kg	J	E

Sample ID: SL-030-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 10:36:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.116		0.0392	MDL	0.109	PQL	mg/Kg	UJ	Q, B
THALLIUM	0.278		0.0327	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory:** LL

EDD Filename: PrepDE028_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-030-SA5C-SB-4.0-5.0 ***Collected:*** 12/3/2010 10:36:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z, Q

Sample ID: SL-030-SA5C-SB-4.0-5.0 ***Collected:*** 12/3/2010 10:36:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.779		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5C-SB-4.0-5.0 ***Collected:*** 12/3/2010 10:36:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.118	MDL	0.436	PQL	mg/Kg	J	E

Sample ID: SL-030-SA5C-SB-4.0-5.0 ***Collected:*** 12/3/2010 10:36:00 ***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	J	0.0654	MDL	0.218	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.87		0.0654	MDL	0.436	PQL	mg/Kg	J	Q, E, E
BERYLLIUM	0.682		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	22.8		0.131	MDL	0.436	PQL	mg/Kg	J	Q, E
COBALT	7.35		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	11.8		0.0719	MDL	0.436	PQL	mg/Kg	J	Q, E, A
LEAD	7.63		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E
SILVER	0.0411	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
VANADIUM	44.7		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	80.1		0.610	MDL	3.27	PQL	mg/Kg	J	E

Sample ID: SL-030-SA5C-SB-9.0-10.0 ***Collected:*** 12/3/2010 10:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0569	J	0.0455	MDL	0.455	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 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
MOLYBDENUM	0.604		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 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
BARIUM	133		0.123	MDL	0.455	PQL	mg/Kg	J	E

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 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	0.0682	U	0.0682	MDL	0.227	PQL	mg/Kg	UJ	Q
ARSENIC	7.70		0.0682	MDL	0.455	PQL	mg/Kg	J	Q, E, E
BERYLLIUM	0.905		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.200		0.0409	MDL	0.114	PQL	mg/Kg	UJ	Q, B
CHROMIUM	23.3		0.136	MDL	0.455	PQL	mg/Kg	J	Q, E
COBALT	10.1		0.0227	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	8.24		0.0750	MDL	0.455	PQL	mg/Kg	J	Q, E, A
LEAD	7.62		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, E, E
NICKEL	14.8		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E
SILVER	0.0567	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.281		0.0341	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	49.2		0.0250	MDL	0.114	PQL	mg/Kg	J	Q, E
ZINC	62.3		0.636	MDL	3.41	PQL	mg/Kg	J	E

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.246		0.0328	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0437	MDL	0.437	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory:** LL

EDD Filename: PrepDE028_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.826		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.118	MDL	0.437	PQL	mg/Kg	J	E

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0656	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.97		0.0656	MDL	0.437	PQL	mg/Kg	J	Q, E, E
BERYLLIUM	0.646		0.0175	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.238		0.0394	MDL	0.109	PQL	mg/Kg	UJ	Q, B
CHROMIUM	22.9		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E
COBALT	7.26		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	14.8		0.0722	MDL	0.437	PQL	mg/Kg	J	Q, E, A
LEAD	6.87		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E, E
NICKEL	14.9		0.109	MDL	0.437	PQL	mg/Kg	J	Q, E
SILVER	0.0345	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
VANADIUM	44.4		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	81.0		0.612	MDL	3.28	PQL	mg/Kg	J	E

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0670	J	0.0455	MDL	0.455	PQL	mg/Kg	J	Z, Q

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *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		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory:** LL

EDD Filename: PrepDE028_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	159		0.123	MDL	0.455	PQL	mg/Kg	J	E

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.111	J	0.0682	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.87		0.0682	MDL	0.455	PQL	mg/Kg	J	Q, E, E
BERYLLIUM	0.971		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.0938	J	0.0409	MDL	0.114	PQL	mg/Kg	UJ	Q, B
CHROMIUM	33.7		0.136	MDL	0.455	PQL	mg/Kg	J	Q, E
COBALT	6.44		0.0227	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	11.6		0.0750	MDL	0.455	PQL	mg/Kg	J	Q, E, A
LEAD	7.81		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, E, E
NICKEL	16.1		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E
SILVER	0.0775	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.356		0.0341	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	51.6		0.0250	MDL	0.114	PQL	mg/Kg	J	Q, E
ZINC	70.0		0.637	MDL	3.41	PQL	mg/Kg	J	E

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0430	MDL	0.430	PQL	mg/Kg	J	Z, Q

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.727		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.116	MDL	0.430	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0644	MDL	0.215	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	6.97		0.0644	MDL	0.430	PQL	mg/Kg	J	Q, E, E
BERYLLIUM	0.961		0.0172	MDL	0.107	PQL	mg/Kg	J	Q
CADMIUM	0.0479	J	0.0387	MDL	0.107	PQL	mg/Kg	UJ	Q, B
CHROMIUM	23.9		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E
COBALT	6.69		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	8.82		0.0709	MDL	0.430	PQL	mg/Kg	J	Q, E, A
LEAD	7.15		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	10.8		0.107	MDL	0.430	PQL	mg/Kg	J	Q, E
SILVER	0.0253	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.376		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	41.0		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	47.7		0.601	MDL	3.22	PQL	mg/Kg	J	E

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

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	2.3		0.22	MDL	1.1	PQL	mg/Kg	J	FD

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *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	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 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	0.0064	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *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	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-030-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 10:36:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.46	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *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	J	19	MDL	380	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-030-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 10:36:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.83	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.87	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.82	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 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(A)PYRENE	0.77	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *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	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.8	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.94	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.89	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.75	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *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

Method Category: SVOA

Method: 8315A **Matrix:** SO

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	1200	J	680	MDL	1700	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DINITROBENZENE	92	J	56	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	540	PQL	ug/Kg	UJ	FD

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	J	110	MDL	540	PQL	ug/Kg	J	Z, FD

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP11-SA5C-QC-120310 *Collected:* 12/3/2010 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.42	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-030-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 10:36:00 *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	0.60	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-030-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 10:40:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	1.7	J	1.3	MDL	8.3	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.64	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-031-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 12:40:00 *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.50	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-031-SA5C-SB-9.0-10.0 *Collected:* 12/3/2010 12:44:00 *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	0.50	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-032-SA5C-SB-4.0-5.0 *Collected:* 12/3/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.68	J	0.27	MDL	4.5	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: PrepDE028_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: PrepDE028_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: PrepDE028_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE028

Method Blank Outlier Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34108CB221043	12/10/2010 10:43:00 AM	TIN	1.83 mg/Kg	DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-SB-4.0-5.0
P34108CB222229	12/8/2010 10:29:00 PM	PHOSPHORUS	1.63 mg/Kg	DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-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
DUP11-SA5C-QC-120310(REA)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-030-SA5C-SB-4.0-5.0(REA)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-030-SA5C-SB-9.0-10.0(REA)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-031-SA5C-SB-4.0-5.0(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-031-SA5C-SB-9.0-10.0(REA)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-032-SA5C-SB-4.0-5.0(REA)	TIN	3.20 mg/Kg	3.20U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34126AB221146A	12/9/2010 11:46:00 AM	CADMIUM COPPER VANADIUM	0.0580 mg/Kg 0.167 mg/Kg 0.0362 mg/Kg	DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-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
DUP11-SA5C-QC-120310(RES)	CADMIUM	0.0623 mg/Kg	0.0623U mg/Kg
SL-030-SA5C-SB-4.0-5.0(REA)	CADMIUM	0.116 mg/Kg	0.116U mg/Kg
SL-030-SA5C-SB-9.0-10.0(RES)	CADMIUM	0.200 mg/Kg	0.200U mg/Kg
SL-031-SA5C-SB-4.0-5.0(RES)	CADMIUM	0.238 mg/Kg	0.238U mg/Kg
SL-031-SA5C-SB-9.0-10.0(RES)	CADMIUM	0.0938 mg/Kg	0.0938U mg/Kg
SL-032-SA5C-SB-4.0-5.0(RES)	CADMIUM	0.0479 mg/Kg	0.0479U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB09B210138A	12/8/2010 1:38:00 AM	METHYLENE CHLORIDE TOLUENE	0.81 ug/Kg 0.1 ug/Kg	DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-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
DUP11-SA5C-QC-120310(RES)	METHYLENE CHLORIDE	0.42 ug/Kg	4.3U ug/Kg
SL-030-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.60 ug/Kg	3.9U ug/Kg
SL-030-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.08 ug/Kg	3.9U ug/Kg
SL-030-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.64 ug/Kg	4.1U ug/Kg
SL-030-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.09 ug/Kg	4.1U ug/Kg
SL-031-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.50 ug/Kg	4.3U ug/Kg
SL-031-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-031-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.50 ug/Kg	3.9U ug/Kg
SL-032-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.68 ug/Kg	4.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_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-032-SA5C-SB-4.0-5.0MS	BERYLLIUM	-	153	75.00-125.00	-	BERYLLIUM	
SL-032-SA5C-SB-4.0-5.0MSD	CADMIUM	139	155	75.00-125.00	-	CADMIUM	
(DUP11-SA5C-QC-120310	CHROMIUM	157	196	75.00-125.00	-	CHROMIUM	
SL-030-SA5C-SB-4.0-5.0	COBALT	-	130	75.00-125.00	-	COBALT	
SL-030-SA5C-SB-9.0-10.0	COPPER	130	151	75.00-125.00	-	COPPER	J (all detects)
SL-031-SA5C-SB-4.0-5.0	NICKEL	138	161	75.00-125.00	-	NICKEL	
SL-031-SA5C-SB-9.0-10.0	SILVER	135	147	75.00-125.00	-	SILVER	Zn No Qual, >4x
SL-032-SA5C-SB-4.0-5.0)	THALLIUM	141	167	75.00-125.00	-	THALLIUM	
	VANADIUM	206	321	75.00-125.00	-	VANADIUM	
	ZINC	193	309	75.00-125.00	-	ZINC	
SL-032-SA5C-SB-4.0-5.0MS	ANTIMONY	53	53	75.00-125.00	-	ANTIMONY	
SL-032-SA5C-SB-4.0-5.0MSD	ARSENIC	184	334	75.00-125.00	25 (20.00)	ARSENIC	
(DUP11-SA5C-QC-120310	LEAD	187	337	75.00-125.00	31 (20.00)	LEAD	
SL-030-SA5C-SB-4.0-5.0							J(all detects)
SL-030-SA5C-SB-9.0-10.0							UJ(all non-detects)
SL-031-SA5C-SB-4.0-5.0							
SL-031-SA5C-SB-9.0-10.0							
SL-032-SA5C-SB-4.0-5.0)							
SL-032-SA5C-SB-4.0-5.0MSD	SELENIUM	-	137	75.00-125.00	-	SELENIUM	
(DUP11-SA5C-QC-120310							
SL-030-SA5C-SB-4.0-5.0							
SL-030-SA5C-SB-9.0-10.0							J(all detects)
SL-031-SA5C-SB-4.0-5.0							
SL-031-SA5C-SB-9.0-10.0							
SL-032-SA5C-SB-4.0-5.0)							
SL-032-SA5C-SB-4.0-5.0MSD	MOLYBDENUM	-	143	75.00-125.00	-	MOLYBDENUM	
(DUP11-SA5C-QC-120310							
SL-030-SA5C-SB-4.0-5.0							
SL-030-SA5C-SB-9.0-10.0							J(all detects)
SL-031-SA5C-SB-4.0-5.0							
SL-031-SA5C-SB-9.0-10.0							
SL-032-SA5C-SB-4.0-5.0)							
SL-032-SA5C-SB-4.0-5.0MS	BARIUM	289	549	75.00-125.00	-	BARIUM	
SL-032-SA5C-SB-4.0-5.0MSD							
(DUP11-SA5C-QC-120310							
SL-030-SA5C-SB-4.0-5.0							
SL-030-SA5C-SB-9.0-10.0							No Qual, >4x
SL-031-SA5C-SB-4.0-5.0							
SL-031-SA5C-SB-9.0-10.0							
SL-032-SA5C-SB-4.0-5.0)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-032-SA5C-SB-4.0-5.0MS	ALUMINUM	1774	1699	75.00-125.00	-	ALUMINUM	
SL-032-SA5C-SB-4.0-5.0MSD	CALCIUM	-	210	75.00-125.00	-	CALCIUM	
(DUP11-SA5C-QC-120310	IRON	1136	535	75.00-125.00	-	IRON	
SL-030-SA5C-SB-4.0-5.0	MAGNESIUM	-	138	75.00-125.00	-	MAGNESIUM	
SL-030-SA5C-SB-9.0-10.0	POTASSIUM	131	135	75.00-125.00	-	POTASSIUM	J(all detects)
SL-031-SA5C-SB-4.0-5.0	TITANIUM	349	355	75.00-125.00	-	TITANIUM	
SL-031-SA5C-SB-9.0-10.0							Al, Ca, Fe, Mg, Ti No Qual, >4x
SL-032-SA5C-SB-4.0-5.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_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-032-SA5C-SB-4.0-5.0MS (SL-032-SA5C-SB-4.0-5.0)	FLUORIDE Nitrate-NO3	170 147	- -	80.00-120.00 80.00-120.00	- -	FLUORIDE Nitrate-NO3	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-032-SA5C-SB-4.0-5.0MS SL-032-SA5C-SB-4.0-5.0MSD (SL-032-SA5C-SB-4.0-5.0)	Chlorotrifluoroethylene	162	162	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-032-SA5C-SB-4.0-5.0DUP (SL-032-SA5C-SB-4.0-5.0)	FLUORIDE	4.2	2.2 mg/Kg	J (all detects) UJ (all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-032-SA5C-SB-4.0-5.0DUP (DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-SB-4.0-5.0)	Zirconium	39	20.00	No Qual OK by difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-032-SA5C-SB-4.0-5.0DUP (DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-SB-4.0-5.0)	ANTIMONY	35	20.00	J(all detects) UJ(all non-detects) Sb, Cd, Se, Tl No Qual OK by difference
	ARSENIC	25	20.00	
	BARIUM	21	20.00	
	CADMIUM	30	20.00	
	CHROMIUM	24	20.00	
	COBALT	38	20.00	
	COPPER	24	20.00	
	LEAD	29	20.00	
	NICKEL	26	20.00	
	SELENIUM	28	20.00	
	THALLIUM	21	20.00	
	VANADIUM	27	20.00	
	ZINC	23	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_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
LCSY29Y211328A (TB-120310)	1,2-DIBROMO-3-CHLOROPROP	-	126	66.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B09Q210223A (DUP11-SA5C-QC-120310 SL-030-SA5C-SB-4.0-5.0 SL-030-SA5C-SB-9.0-10.0 SL-031-SA5C-SB-4.0-5.0 SL-031-SA5C-SB-9.0-10.0 SL-032-SA5C-SB-4.0-5.0)	Chlorotrifluoroethylene	140	-	22.00-131.00	-	Chlorotrifluoroethylene	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: PrepDE028_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
MOISTURE	7.8	8.0	3		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
FLUORIDE	4.9	10.5	73	50.00	J(all detects)
Nitrate-NO3	1.7	4.3	87	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
ALUMINUM	20000	18300	9	50.00	
CALCIUM	3030	1990	41	50.00	
IRON	24900	23000	8	50.00	
LITHIUM	28.1	26.4	6	50.00	
MAGNESIUM	4960	4760	4	50.00	
MANGANESE	155	169	9	50.00	
PHOSPHORUS	136	136	0	50.00	No Qualifiers Applied
POTASSIUM	1970	2090	6	50.00	
SODIUM	594	648	9	50.00	
STRONTIUM	24.4	22.0	10	50.00	
TIN	3.20	2.63	20	50.00	
TITANIUM	1320	1260	5	50.00	
Zirconium	1.30	1.22	6	50.00	
BORON	5.21 U	7.82	200	50.00	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
ARSENIC	6.97	8.20	16	50.00	
BARIUM	132	125	5	50.00	
BERYLLIUM	0.961	0.853	12	50.00	
CADMIUM	0.0479	0.0623	26	50.00	
CHROMIUM	23.9	25.7	7	50.00	
COBALT	6.69	4.49	39	50.00	
COPPER	8.82	9.56	8	50.00	
LEAD	7.15	8.17	13	50.00	No Qualifiers Applied
MOLYBDENUM	0.727	0.834	14	50.00	
NICKEL	10.8	11.3	5	50.00	
SELENIUM	0.177	0.111	46	50.00	
SILVER	0.0253	0.0279	10	50.00	
THALLIUM	0.376	0.396	5	50.00	
VANADIUM	41.0	44.0	7	50.00	
ZINC	47.7	56.6	17	50.00	
ANTIMONY	0.140	0.213 U	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE028 Laboratory: LL

EDD Filename: PrepDE028_v1 eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
HEXAVALENT CHROMIUM	1.1 U	2.3	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
ETHANOL	110	540 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
METHYLENE CHLORIDE	0.68	0.42	47	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
PH	7.16	8.42	16	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-032-SA5C-SB-4.0-5.0	DUP11-SA5C-QC-120310			
Oxidation Reduction Potential	435	429	1		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-4.0-5.0	PERCHLORATE	J	16.3	33.8	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA5C-QC-120310	TIN	J	2.63	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.22	5.28	PQL	mg/Kg	
SL-030-SA5C-SB-4.0-5.0	TIN	J	3.18	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.64	5.39	PQL	mg/Kg	
SL-030-SA5C-SB-9.0-10.0	TIN	J	2.86	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.64	5.63	PQL	mg/Kg	
SL-031-SA5C-SB-4.0-5.0	BORON	J	2.85	5.52	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.4	110	PQL	mg/Kg	
	TIN	J	2.97	11.0	PQL	mg/Kg	
	Zirconium	J	1.51	5.52	PQL	mg/Kg	
SL-031-SA5C-SB-9.0-10.0	TIN	J	2.91	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.42	5.68	PQL	mg/Kg	
SL-032-SA5C-SB-4.0-5.0	TIN	J	3.20	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.30	5.21	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA5C-QC-120310	CADMIUM	J	0.0623	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.111	0.426	PQL	mg/Kg	
	SILVER	J	0.0279	0.107	PQL	mg/Kg	
SL-030-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0779	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.134	0.436	PQL	mg/Kg	
	SILVER	J	0.0411	0.109	PQL	mg/Kg	
SL-030-SA5C-SB-9.0-10.0	SELENIUM	J	0.0569	0.455	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0567	0.114	PQL	mg/Kg	
SL-031-SA5C-SB-4.0-5.0	ANTIMONY	J	0.126	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.437	PQL	mg/Kg	
	SILVER	J	0.0345	0.109	PQL	mg/Kg	
SL-031-SA5C-SB-9.0-10.0	ANTIMONY	J	0.111	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0938	0.114	PQL	mg/Kg	
	SELENIUM	J	0.0670	0.455	PQL	mg/Kg	
	SILVER	J	0.0775	0.114	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA5C-SB-4.0-5.0	ANTIMONY	J	0.140	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0479	0.107	PQL	mg/Kg	
	SELENIUM	J	0.177	0.430	PQL	mg/Kg	
	SILVER	J	0.0253	0.107	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA5C-SB-9.0-10.0	MERCURY	J	0.0064	0.110	PQL	mg/Kg	J (all detects)
SL-031-SA5C-SB-9.0-10.0	MERCURY	J	0.0096	0.111	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA5C-SB-4.0-5.0	ETHANOL	J	110	540	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.46	1.3	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA5C-QC-120310	METHYLENE CHLORIDE	J	0.42	4.3	PQL	ug/Kg	J (all detects)
SL-030-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.60	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.08	3.9	PQL	ug/Kg	
SL-030-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	1.7	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.64	4.1	PQL	ug/Kg	
	TOLUENE	J	0.09	4.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE028 **Laboratory: LL**

EDD Filename: DE028_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.50	4.3	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.3	PQL	ug/Kg	
SL-031-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.50	3.9	PQL	ug/Kg	J (all detects)
SL-032-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.68	4.5	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA5C-SB-4.0-5.0	BENZO(A)PYRENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.87	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.82	1.9	PQL	ug/Kg	
SL-030-SA5C-SB-9.0-10.0	BENZO(A)PYRENE	J	0.77	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.2	1.9	PQL	ug/Kg	
SL-031-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.8	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.94	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.89	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.75	1.9	PQL	ug/Kg	
SL-031-SA5C-SB-9.0-10.0	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	J (all detects)

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-4.0-5.0	FORMALDEHYDE	J	1200	1700	PQL	ug/Kg	J (all detects)

Method: 8330A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5C-SB-4.0-5.0	1,3-DINITROBENZENE	J	92	170	PQL	ug/Kg	J (all detects)

LDC #: 25337B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-4-11
SDG #: DE028 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: QR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Ti, Zn >4x)
VII.	Duplicate Sample Analysis	N	D, R (Sb, Cd, Se, Tl, Zr <5x RL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (Cu, Fe)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-030-SA5C-SB-9.0-10.0	11		21	PBS	31	
2	SL-030-SA5C-SB-4.0-5.0	12		22		32	
3	SL-031-SA5C-SB-9.0-10.0	13		23		33	
4	SL-031-SA5C-SB-4.0-5.0	14		24		34	
5	SL-032-SA5C-SB-4.0-5.0	15		25		35	
6	DUP11-SA5C-QC-120310	16		26		36	
7	SL-032-SA5C-SB-4.0-5.0MS	17		27		37	
8	SL-032-SA5C-SB-4.0-5.0MSD	18		28		38	
9	SL-032-SA5C-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CS
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICPMS: 2xdil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

					Sample Identification									
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	2	3	4	5						
Sb			0.32	0.32	0.078	0.11	0.13	0.14						

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE028
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6156146BKG Serial Dilution Lab Sample ID: 6156146L
Batch ID(s): P34108C, P34126A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		192113.8000		177510.1000		8		P
Antimony	121	0.6498	B	1.5000	U	100		MS
Arsenic	75	32.4700		30.9900		5		MS
Barium	137	616.5000		621.5000		1		MS
Beryllium	9	4.4760		4.5875		2		MS
Boron		8.9000	U	48.6000	B	100		P
Cadmium	111	0.2229	B	0.9685	B	334		MS
Calcium		29067.8700		28335.3500		3		P
Chromium	52	111.3000		122.0000		10		MS
Cobalt	59	31.1300		34.0600		9		MS
Copper	63	41.0500		45.5400		11	E	MS
Iron		238337.9400		211855.5000		11	E	P
Lead	208	33.3000		32.5700		2		MS
Lithium		269.5400		260.3500		3		P
Magnesium		47599.3900		45227.2500		5		P
Manganese		1489.8600		1481.6000		1		P
Molybdenum	98	3.3840		2.5950		23		MS
Nickel	60	50.3100		54.8000		9		MS
Phosphorus		1301.5800		1245.1000		4		P
Potassium		18887.0200		18711.8000		1		P
Selenium	78	0.8263	B	1.0000	U	100		MS
Silver	107	0.1180	B	0.3000	U	100		MS
Sodium		5697.7700		5349.0000		6		P
Strontium		233.5500		222.0000		5		P
Thallium	203	1.7520		1.4185	B	19		MS
Tin		30.6900	B	50.0000	U	100		P
Titanium		2537.4100		2560.9500		1		P
Vanadium	51	190.9000		204.2500		7		MS
Zinc	66	221.9000		225.3500		2		MS
Zirconium		12.4200	B	42.0000	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.

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

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-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3060A	7199	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3546	1625C	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3550B	8015B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3550B	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3550B	8082	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3550B	8270C	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	3550B	8270C SIM	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	5035	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	5035	8260B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	5035	8260B SIM	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	8330	8330A	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	Gen Prep	9045M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	METHOD	300.0	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	METHOD	314.0	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	METHOD	8015B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	METHOD	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	METHOD	8315A	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0	6157195	N	METHOD	9012B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3060A	7199	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3546	1625C	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3550B	8015B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3550B	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3550B	8082	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3550B	8270C	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	3550B	8270C SIM	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	5035	8015M	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	5035	8260B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	5035	8260B SIM	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	8330	8330A	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	METHOD	300.0	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	METHOD	314.0	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	METHOD	8015B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	METHOD	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	METHOD	8315A	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MS	6157196	MS	METHOD	9012B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	3546	1625C	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	3550B	8015B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	3550B	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	3550B	8082	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	3550B	8270C	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	3550B	8270C SIM	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	5035	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	5035	8260B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	5035	8260B SIM	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	8330	8330A	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	METHOD	8015B	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	METHOD	8015M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0MSD	6157197	MSD	METHOD	8315A	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0DUP	6157198	DUP	3060A	7199	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0DUP	6157198	DUP	Gen Prep	9045M	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0DUP	6157198	DUP	METHOD	300.0	IV
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0DUP	6157198	DUP	METHOD	314.0	IV

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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
06-Dec-2010	SL-028-SA5C-SB-4.0-5.0DUP	6157198	DUP	METHOD	9012B	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3050B	6010B	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3050B	6020	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3060A	7199	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3546	1625C	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3550B	8015B	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3550B	8015M	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3550B	8082	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3550B	8270C	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	3550B	8270C SIM	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	5035	8015M	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	5035	8260B	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	5035	8260B SIM	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	8330	8330A	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	Gen Prep	9045M	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	300.0	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	314.0	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	7471A	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	8015B	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	8015M	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	8315A	IV
06-Dec-2010	DUP12-SA5C-QC-120610	6157193	N	METHOD	9012B	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	3050B	6010B	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	3050B	6020	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	3060A	7199	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	3550B	8082	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	3550B	8270C	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	3550B	8270C SIM	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	5035	8260B	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	5035	8260B SIM	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	Gen Prep	9045M	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	METHOD	300.0	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	METHOD	314.0	IV
06-Dec-2010	SL-024-SA5C-SB-4.0-5.0	6157199	N	METHOD	7471A	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	3050B	6010B	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	3050B	6020	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	3060A	7199	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	3550B	8082	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	3550B	8270C	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	3550B	8270C SIM	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	Gen Prep	9045M	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	METHOD	300.0	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	METHOD	314.0	IV
06-Dec-2010	SL-024-SA5C-SB-9.0-10.0	6157203	N	METHOD	7471A	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3050B	6010B	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3060A	7199	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3546	1625C	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3550B	8015B	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3550B	8015M	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3550B	8082	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3550B	8270C	IV

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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
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	3550B	8270C SIM	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	5035	8015M	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	5035	8260B	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	5035	8260B SIM	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	8330	8330A	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	Gen Prep	9045M	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	300.0	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	314.0	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	7471A	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	8015B	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	8015M	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	8315A	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0	6157194	N	METHOD	9012B	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0DUP	P157194D221140A	DUP	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0DUP	P157194D221140B	DUP	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0DUP	P157194D221140C	DUP	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0DUP	P157194D221140D	DUP	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MSD	P157194M221146A	MSD	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MSD	P157194M221146B	MSD	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MSD	P157194M221146C	MSD	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MSD	P157194M221146D	MSD	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MS	P157194R221143A	MS	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MS	P157194R221143B	MS	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MS	P157194R221143C	MS	3050B	6020	IV
06-Dec-2010	SL-018-SA5C-SB-4.0-5.0MS	P157194R221143D	MS	3050B	6020	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3050B	6010B	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3050B	6020	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3060A	7199	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3546	1625C	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3550B	8015B	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3550B	8015M	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3550B	8082	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3550B	8270C	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	3550B	8270C SIM	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	5035	8015M	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	5035	8260B	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	5035	8260B SIM	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	8330	8330A	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	Gen Prep	9045M	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	300.0	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	314.0	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	6850	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	7471A	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	8015B	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	8015M	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	8315A	IV
06-Dec-2010	SL-025-SA5C-SB-4.0-5.0	6157201	N	METHOD	9012B	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3050B	6010B	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3050B	6020	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3060A	7199	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3546	1625C	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3550B	8015B	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3550B	8015M	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3550B	8082	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3550B	8270C	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	3550B	8270C SIM	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	5035	8015M	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	5035	8260B	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	5035	8260B SIM	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	8330	8330A	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	Gen Prep	9045M	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	300.0	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	314.0	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	7471A	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	8015B	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	8015M	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	8315A	IV
06-Dec-2010	SL-025-SA5C-SB-9.0-10.0	6157202	N	METHOD	9012B	IV
06-Dec-2010	TB-120610	6157200	TB	5030B	8015M	IV
06-Dec-2010	TB-120610	6157200	TB	5030B	8260B	IV
06-Dec-2010	TB-120610	6157200	TB	5030B	8260B SIM	IV

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Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE029 Laboratory: LL

EDD Filename: PrepDE029_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP12-SA5C-QC-120610 **Collected:** 12/6/2010 9:57:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.91	MDL	1.1	PQL	mg/Kg	J	FD
Nitrate-NO3	3.6		0.91	MDL	1.7	PQL	mg/Kg	J	FD

Sample ID: SL-018-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 1:37:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.91	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 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	3.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-024-SA5C-SB-9.0-10.0 **Collected:** 12/6/2010 11:36:00 **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		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-025-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 3:13:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E
Nitrate-NO3	2.2		0.89	MDL	1.7	PQL	mg/Kg	J	Q, E

Sample ID: SL-025-SA5C-SB-9.0-10.0 **Collected:** 12/6/2010 3:24:00 **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		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.8		0.88	MDL	1.7	PQL	mg/Kg	J	Q, E

Sample ID: SL-028-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 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	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	E, FD
Nitrate-NO3	15.8		0.88	MDL	1.7	PQL	mg/Kg	J	Q, E, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP12-SA5C-QC-120610 **Collected:** 12/6/2010 9:57:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	304		0.619	MDL	11.0	PQL	mg/Kg	J	E
TIN	2.43	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.69	J	0.928	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 1:37:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	345		0.632	MDL	11.3	PQL	mg/Kg	J	E
TIN	2.41	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	1.02	J	0.948	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 11:32:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.19	J	0.978	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 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
PHOSPHORUS	99.2		0.615	MDL	11.0	PQL	mg/Kg	J	E
SODIUM	85.9	J	41.0	MDL	110	PQL	mg/Kg	J	Z
TIN	2.62	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	0.978	J	0.923	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-9.0-10.0 **Collected:** 12/6/2010 11:36:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.05	J	0.971	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-9.0-10.0 **Collected:** 12/6/2010 11:36:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	88.6		0.611	MDL	10.9	PQL	mg/Kg	J	E
TIN	2.82	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.04	J	0.916	MDL	5.45	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.91	J	0.975	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	279		0.613	MDL	11.0	PQL	mg/Kg	J	E
TIN	2.76	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.61	J	0.920	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.28	J	0.972	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	317		0.611	MDL	10.9	PQL	mg/Kg	J	E
TIN	2.39	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.6		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 Laboratory: LL

EDD Filename: PrepDE029_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	5.43		0.0669	MDL	0.446	PQL	mg/Kg	J	Q
BERYLLIUM	0.766		0.0178	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	24.8		0.134	MDL	0.446	PQL	mg/Kg	J	Q, A
COBALT	6.88		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	10.9		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	8.03		0.0116	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	12.8		0.112	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0426	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	48.4		0.0245	MDL	0.112	PQL	mg/Kg	J	Q, A
ZINC	59.7		0.625	MDL	3.35	PQL	mg/Kg	J	E

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.3		0.121	MDL	0.447	PQL	mg/Kg	J	E, A

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0739	J	0.0671	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	4.52		0.0671	MDL	0.447	PQL	mg/Kg	J	Q
BERYLLIUM	0.585		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	19.5		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	5.03		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	8.00		0.0738	MDL	0.447	PQL	mg/Kg	J	Q, A
LEAD	6.00		0.0116	MDL	0.224	PQL	mg/Kg	J	Q
NICKEL	10.4		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0335	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	36.8		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	59.9		0.626	MDL	3.35	PQL	mg/Kg	J	E

Sample ID: SL-024-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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	0.0718	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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	118		0.115	MDL	0.427	PQL	mg/Kg	J	E, A

Sample ID: SL-024-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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	0.0919	J	0.0640	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	6.14		0.0640	MDL	0.427	PQL	mg/Kg	J	Q
BERYLLIUM	0.893		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	20.6		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	3.93		0.0213	MDL	0.107	PQL	mg/Kg	J	A
COPPER	6.10		0.0704	MDL	0.427	PQL	mg/Kg	J	Q, A
LEAD	7.51		0.0111	MDL	0.213	PQL	mg/Kg	J	Q
NICKEL	9.68		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0444	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	42.0		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, A
ZINC	32.7		0.597	MDL	3.20	PQL	mg/Kg	J	E

Sample ID: SL-024-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 11:36:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0486	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-024-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 11:36:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	66.1		0.117	MDL	0.432	PQL	mg/Kg	J	E, A

Sample ID: SL-024-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 11:36:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0648	U	0.0648	MDL	0.216	PQL	mg/Kg	UJ	Q
ARSENIC	5.72		0.0648	MDL	0.432	PQL	mg/Kg	J	Q
BERYLLIUM	0.686		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.0430	J	0.0389	MDL	0.108	PQL	mg/Kg	J	Z
CHROMIUM	19.4		0.130	MDL	0.432	PQL	mg/Kg	J	Q, A
COBALT	3.79		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	6.18		0.0713	MDL	0.432	PQL	mg/Kg	J	Q, A
LEAD	6.17		0.0112	MDL	0.216	PQL	mg/Kg	J	Q
NICKEL	8.97		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0229	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	40.7		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, A
ZINC	50.2		0.605	MDL	3.24	PQL	mg/Kg	J	E

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.117	MDL	0.434	PQL	mg/Kg	J	E, A

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0850	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	5.61		0.0651	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.697		0.0174	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	26.2		0.130	MDL	0.434	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	7.11		0.0217	MDL	0.108	PQL	mg/Kg	J	A
COPPER	11.7		0.0716	MDL	0.434	PQL	mg/Kg	J	Q, A
LEAD	7.57		0.0113	MDL	0.217	PQL	mg/Kg	J	Q
NICKEL	13.9		0.108	MDL	0.434	PQL	mg/Kg	J	Q
SILVER	0.0490	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	47.5		0.0239	MDL	0.108	PQL	mg/Kg	J	Q, A
ZINC	70.9		0.607	MDL	3.25	PQL	mg/Kg	J	E

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.117	MDL	0.432	PQL	mg/Kg	J	E, A

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0763	J	0.0649	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.25		0.0649	MDL	0.432	PQL	mg/Kg	J	Q
BERYLLIUM	0.683		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	23.2		0.130	MDL	0.432	PQL	mg/Kg	J	Q, A
COBALT	6.87		0.0216	MDL	0.108	PQL	mg/Kg	J	A
COPPER	11.5		0.0713	MDL	0.432	PQL	mg/Kg	J	Q, A
LEAD	6.93		0.0112	MDL	0.216	PQL	mg/Kg	J	Q
NICKEL	12.3		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0502	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	43.7		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, A
ZINC	74.4		0.605	MDL	3.24	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-024-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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
HEXAVALENT CHROMIUM	0.41	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0052	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0045	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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
MERCURY	0.0060	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 11:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0033	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *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	0.0032	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0057	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	168		19.0	MDL	37.9	PQL	ng/Kg	J	FD

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	37.7	J	19.0	MDL	38.0	PQL	ng/Kg	J	Z

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *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	27.2	J	18.6	MDL	37.2	PQL	ng/Kg	J	Z

Sample ID: SL-028-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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
N-NITROSODIMETHYLAMINE	51.2		18.4	MDL	36.8	PQL	ng/Kg	J	FD

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *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)	0.49	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z, FD

Sample ID: SL-028-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 9:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	R	Q
EFH (C15-C20)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	UJ	FD
EFH (C8-C11)	0.44	U	0.44	MDL	1.3	PQL	mg/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1254	0.71	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, *XIII
AROCLOR 1260	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.5	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *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	0.69	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.79	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *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	0.50	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, *XIII
AROCLOR 1260	0.56	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *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	0.60	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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 1248	0.67	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD
AROCLOR 1254	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.3	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	7.0		1.1	MDL	3.6	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-028-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

Method Category: SVOA

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

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.58	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	2.8		0.76	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	U	6.8	MDL	20	PQL	ug/Kg	UJ	FD
CHRYSENE	3.6		0.38	MDL	1.9	PQL	ug/Kg	J	FD
Dimethylphthalate	17	J	6.8	MDL	20	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	6.7		0.76	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	0.86	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	7.0		0.76	MDL	1.9	PQL	ug/Kg	J	FD
PYRENE	5.6		0.76	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.94	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.77	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.91	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.80	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 11:36:00 *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	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-024-SA5C-SB-9.0-10.0 ***Collected:*** 12/6/2010 11:36:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA5C-SB-4.0-5.0 ***Collected:*** 12/6/2010 3:13:00 ***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	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5C-SB-4.0-5.0 ***Collected:*** 12/6/2010 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
ANTHRACENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.96	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z, Q
BENZO(K)FLUORANTHENE	0.75	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.6	MDL	20	PQL	ug/Kg	J	Z, FD
CHRYSENE	1.7	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
Dimethylphthalate	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
FLUORANTHENE	1.7	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
NAPHTHALENE	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	1.7	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DINITROBENZENE	57	U	57	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HMX	140	U	140	MDL	410	PQL	ug/Kg	UJ	C
Tetryl	84	U	84	MDL	170	PQL	ug/Kg	UJ	C

Sample ID: SL-028-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 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
1,3-DINITROBENZENE	260 *		55	MDL	170	PQL	ug/Kg	J	FD

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: DUP12-SA5C-QC-120610 *Collected:* 12/6/2010 9:57:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	570	PQL	ug/Kg	UJ	FD

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	140	J	110	MDL	560	PQL	ug/Kg	J	Z
METHANOL	140	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	130	J	110	MDL	550	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory:** LL

EDD Filename: PrepDE029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-028-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 9:50:00 **Analysis Type:** REA4 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	130	J	110	MDL	550	PQL	ug/Kg	J	Z, FD

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: TB-120610 **Collected:** 12/6/2010 4:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	2	U	2	MDL	10	PQL	ug/L	UJ	C
1,2-DIBROMO-3-CHLOROPROPANE	2	U	2	MDL	5	PQL	ug/L	UJ	C
2-HEXANONE	3	U	3	MDL	10	PQL	ug/L	UJ	C
4-METHYL-2-PENTANONE (MIBK)	3	U	3	MDL	10	PQL	ug/L	UJ	C
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C
Chlorotrifluoroethylene	2	U	2	MDL	5	PQL	ug/L	UJ	C

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP12-SA5C-QC-120610 **Collected:** 12/6/2010 9:57:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.72	U	0.72	MDL	4.1	PQL	ug/Kg	UJ	C
2-HEXANONE	1.6	U	1.6	MDL	8.2	PQL	ug/Kg	UJ	C, C
4-METHYL-2-PENTANONE (MIBK)	0.40	U	0.40	MDL	8.2	PQL	ug/Kg	UJ	C
ACETONE	7.4	J	6.9	MDL	8.2	PQL	ug/Kg	J	Z, FD
Chlorotrifluoroethylene	0.51	U	0.51	MDL	5.1	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.53	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-018-SA5C-SB-4.0-5.0 **Collected:** 12/6/2010 1:37:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.73	U	0.73	MDL	4.2	PQL	ug/Kg	UJ	C
2-HEXANONE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	C, C
4-METHYL-2-PENTANONE (MIBK)	0.41	U	0.41	MDL	8.4	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 Laboratory: LL

EDD Filename: PrepDE029_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-018-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 1:37:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlorotrifluoroethylene	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.47	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-024-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 11:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.79	U	0.79	MDL	4.5	PQL	ug/Kg	UJ	C
2-HEXANONE	1.8	U	1.8	MDL	9.1	PQL	ug/Kg	UJ	C, C
4-METHYL-2-PENTANONE (MIBK)	0.44	U	0.44	MDL	9.1	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.57	U	0.57	MDL	5.7	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.45	J	0.27	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-025-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 3:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.69	U	0.69	MDL	3.9	PQL	ug/Kg	UJ	C
2-HEXANONE	1.6	U	1.6	MDL	7.8	PQL	ug/Kg	UJ	C, C
4-METHYL-2-PENTANONE (MIBK)	0.38	U	0.38	MDL	7.8	PQL	ug/Kg	UJ	C
Chlorotrifluoroethylene	0.49	U	0.49	MDL	4.9	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.63	J	0.24	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-025-SA5C-SB-9.0-10.0 *Collected:* 12/6/2010 3:24:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.64	U	0.64	MDL	3.7	PQL	ug/Kg	UJ	C
2-HEXANONE	1.5	U	1.5	MDL	7.3	PQL	ug/Kg	UJ	C, C
4-METHYL-2-PENTANONE (MIBK)	0.36	U	0.36	MDL	7.3	PQL	ug/Kg	UJ	C
ACETONE	7.1	J	6.1	MDL	7.3	PQL	ug/Kg	J	Z
Chlorotrifluoroethylene	0.46	U	0.46	MDL	4.6	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	1.5	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-028-SA5C-SB-4.0-5.0 *Collected:* 12/6/2010 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.76	U	0.76	MDL	4.3	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: **SL-028-SA5C-SB-4.0-5.0** ***Collected:*** **12/6/2010 9:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.98**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2-HEXANONE	1.7	U	1.7	MDL	8.7	PQL	ug/Kg	UJ	C, C
4-METHYL-2-PENTANONE (MIBK)	0.42	U	0.42	MDL	8.7	PQL	ug/Kg	UJ	C
ACETONE	7.3	U	7.3	MDL	8.7	PQL	ug/Kg	UJ	FD
Chlorotrifluoroethylene	0.54	U	0.54	MDL	5.4	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	0.87	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE029

Method Blank Outlier Report

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34308BB221131	12/14/2010 11:31:00 AM	LITHIUM	0.50 mg/Kg	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0
P34308BB221623	12/12/2010 4:23:00 PM	ALUMINUM CALCIUM PHOSPHORUS TIN	6.22 mg/Kg 7.06 mg/Kg 0.819 mg/Kg 1.73 mg/Kg	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-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
DUP12-SA5C-QC-120610(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-018-SA5C-SB-4.0-5.0(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-024-SA5C-SB-4.0-5.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-024-SA5C-SB-9.0-10.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-025-SA5C-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-025-SA5C-SB-9.0-10.0(RES)	TIN	2.39 mg/Kg	2.39U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34326AB221128A	12/13/2010 11:28:00 AM	COPPER LEAD	0.284 mg/Kg 0.0130 mg/Kg	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB09B210138A	12/8/2010 1:38:00 AM	METHYLENE CHLORIDE TOLUENE	0.81 ug/Kg 0.1 ug/Kg	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP12-SA5C-QC-120610(RES)	METHYLENE CHLORIDE	0.53 ug/Kg	4.1U ug/Kg
SL-018-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.47 ug/Kg	4.2U ug/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE029 Laboratory: LL

EDD Filename: DE029_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-024-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.45 ug/Kg	4.5U ug/Kg
SL-025-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	3.9U ug/Kg
SL-025-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	3.7U ug/Kg
SL-028-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.87 ug/Kg	4.3U ug/Kg

Method: 8270C
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA34B262002	12/13/2010 8:02:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	25 ug/Kg	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE029 | Laboratory: LL

EDD Filename: DE029_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-028-SA5C-SB-4.0-5.0MSD (SL-028-SA5C-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	- -	- -	75.00-125.00 75.00-125.00	23 (20.00) 21 (20.00)	m-Terphenyl p-Terphenyl	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-028-SA5C-SB-4.0-5.0MSD (SL-028-SA5C-SB-4.0-5.0)	EFH (C15-C20)	-	-	49.00-123.00	21 (20.00)	EFH (C15-C20)	J(all detects)
SL-028-SA5C-SB-4.0-5.0MS SL-028-SA5C-SB-4.0-5.0MSD (SL-028-SA5C-SB-4.0-5.0)	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	- -184 -449 -	0 507 1564 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	200 (20.00) 132 (20.00) 151 (20.00) 200 (20.00)	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J(all detects) R(all non-detects) EFH (C21-C30), (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-018-SA5C-SB-4.0-5.0MS SL-018-SA5C-SB-4.0-5.0MSD (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL VANADIUM	170 128 145 126 195 138 197	139 - 138 126 135 - 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	- - - - - - -	ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL VANADIUM	J(all detects)
SL-018-SA5C-SB-4.0-5.0MS SL-018-SA5C-SB-4.0-5.0MSD (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	ANTIMONY ZINC	48 142	41 60	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn No Qual, >4x
SL-018-SA5C-SB-4.0-5.0MS SL-018-SA5C-SB-4.0-5.0MSD (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	BARIUM	292	577	75.00-125.00	22 (20.00)	BARIUM	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-028-SA5C-SB-4.0-5.0MS (SL-028-SA5C-SB-4.0-5.0)	BENZIDINE	30	-	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_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-028-SA5C-SB-4.0-5.0MSD (SL-028-SA5C-SB-4.0-5.0)	BENZO(G,H,I)PERYLENE Dimethylphthalate	- -	- 119	33.00-141.00 74.00-118.00	34 (30.00) -	BENZO(G,H,I)PERYLENE Dimethylphthalate	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-028-SA5C-SB-4.0-5.0MS (SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0)	FLUORIDE	135	-	80.00-120.00	-	FLUORIDE	J(all detects)
SL-028-SA5C-SB-4.0-5.0MS (SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0)	Nitrate-NO3	40	-	80.00-120.00	-	Nitrate-NO3	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-028-SA5C-SB-4.0-5.0MS SL-028-SA5C-SB-4.0-5.0MSD (SL-028-SA5C-SB-4.0-5.0)	Chlorotrifluoroethylene	167	170	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-028-SA5C-SB-4.0-5.0DUP (SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0)	FLUORIDE Nitrate-NO3	3.22 11.2	2.2 mg/Kg 3.4 mg/Kg	J (all detects) UJ (all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-028-SA5C-SB-4.0-5.0DUP (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0)	HEXAVALENT CHROMIUM	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-018-SA5C-SB-4.0-5.0DUP (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	ANTIMONY ZINC	200 27	20.00 20.00	J(all detects) UJ(all non-detects) Sb No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: PrepDE029_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
LCSY29Y211328A (TB-120610)	1,2-DIBROMO-3-CHLOROPROP	-	126	66.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34326AQ221131A (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-9.0-10.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	ANTIMONY	62	-	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
LCS1B09Q210223A (DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-028-SA5C-SB-4.0-5.0)	Chlorotrifluoroethylene	140	-	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
MOISTURE	9.4	12.1	25		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
N-NITROSODIMETHYLAMINE	51.2	168	107	50.00	J(all detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
FLUORIDE	1.1 U	3.9	200	50.00	J(all detects)
Nitrate-NO3	15.8	3.6	126	50.00	UJ(all non-detects)

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
ETHANOL	130	570 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-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
EFH (C21-C30)	8.4	11	27	50.00	No Qualifiers Applied
EFH (C30-C40)	21	28	29	50.00	
EFH (C15-C20)	1.3 U	0.49	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
AROCLOR 1254	1.1	0.71	43	50.00	No Qualifiers Applied
AROCLOR 1260	1.3	1.6	21	50.00	
AROCLOR 1248	0.67	1.9 U	200	50.00	J(all detects)
Aroclor 5460	7.0	2.5	95	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
METHYLENE CHLORIDE	0.87	0.53	49	50.00	No Qualifiers Applied
ACETONE	8.7 U	7.4	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-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
BENZO(A)PYRENE	1.5	2.0	29	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	2.6	4.3	49	50.00	
BENZO(G,H,I)PERYLENE	0.96	1.0	4	50.00	
ANTHRACENE	1.8 U	0.58	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	1.1	2.8	87	50.00	
BENZO(K)FLUORANTHENE	0.75	1.6	72	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	10	20 U	200	50.00	
CHRYSENE	1.7	3.6	72	50.00	
Dimethylphthalate	20 U	17	200	50.00	
FLUORANTHENE	1.7	6.7	119	50.00	
INDENO(1,2,3-CD)PYRENE	1.8 U	0.86	200	50.00	
NAPHTHALENE	1.8 U	1.4	200	50.00	
PHENANTHRENE	1.8 U	7.0	200	50.00	
PYRENE	1.7	5.6	107	50.00	

Method: 8330A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
1,3-DINITROBENZENE	260	170 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-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
PH	8.00	7.19	11	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-028-SA5C-SB-4.0-5.0	DUP12-SA5C-QC-120610			
Oxidation Reduction Potential	380	366	4		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-018-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	37.7	38.0	PQL	ng/Kg	J (all detects)
SL-025-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	27.2	37.2	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-018-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.4	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	TIN	J	2.43	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.69	5.52	PQL	mg/Kg	
SL-018-SA5C-SB-4.0-5.0	TIN	J	2.41	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.02	5.64	PQL	mg/Kg	
SL-024-SA5C-SB-4.0-5.0	BORON	J	4.19	5.49	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.9	110	PQL	mg/Kg	
	TIN	J	2.62	11.0	PQL	mg/Kg	
	Zirconium	J	0.978	5.49	PQL	mg/Kg	
SL-024-SA5C-SB-9.0-10.0	BORON	J	2.05	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.9	PQL	mg/Kg	
	Zirconium	J	1.04	5.45	PQL	mg/Kg	
SL-025-SA5C-SB-4.0-5.0	BORON	J	4.91	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	11.0	PQL	mg/Kg	
	Zirconium	J	1.61	5.48	PQL	mg/Kg	
SL-025-SA5C-SB-9.0-10.0	BORON	J	3.28	5.46	PQL	mg/Kg	J (all detects)
	TIN	J	2.39	10.9	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	ANTIMONY	J	0.0880	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.123	0.446	PQL	mg/Kg	
	SILVER	J	0.0426	0.112	PQL	mg/Kg	
SL-018-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0739	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.153	0.447	PQL	mg/Kg	
	SILVER	J	0.0335	0.112	PQL	mg/Kg	
SL-024-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0919	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0718	0.427	PQL	mg/Kg	
	SILVER	J	0.0444	0.107	PQL	mg/Kg	
SL-024-SA5C-SB-9.0-10.0	CADMIUM	J	0.0430	0.108	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0486	0.432	PQL	mg/Kg	
	SILVER	J	0.0229	0.108	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-025-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0850	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.154	0.434	PQL	mg/Kg	
	SILVER	J	0.0490	0.108	PQL	mg/Kg	
SL-025-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0763	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.432	PQL	mg/Kg	
	SILVER	J	0.0502	0.108	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	MERCURY	J	0.0052	0.108	PQL	mg/Kg	J (all detects)
SL-018-SA5C-SB-4.0-5.0	MERCURY	J	0.0045	0.111	PQL	mg/Kg	J (all detects)
SL-024-SA5C-SB-4.0-5.0	MERCURY	J	0.0060	0.107	PQL	mg/Kg	J (all detects)
SL-024-SA5C-SB-9.0-10.0	MERCURY	J	0.0033	0.105	PQL	mg/Kg	J (all detects)
SL-025-SA5C-SB-4.0-5.0	MERCURY	J	0.0127	0.112	PQL	mg/Kg	J (all detects)
SL-025-SA5C-SB-9.0-10.0	MERCURY	J	0.0057	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-025-SA5C-SB-4.0-5.0	ETHANOL	J	140	560	PQL	ug/Kg	J (all detects)
	METHANOL	J	140	560	PQL	ug/Kg	
SL-025-SA5C-SB-9.0-10.0	ETHANOL	J	130	550	PQL	ug/Kg	J (all detects)
SL-028-SA5C-SB-4.0-5.0	ETHANOL	J	130	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	EFH (C15-C20)	J	0.49	1.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	AROCLOR 1254	J	0.71	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.6	1.9	PQL	ug/Kg	
	Aroclor 5460	J	2.5	3.8	PQL	ug/Kg	
SL-018-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.69	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.79	1.9	PQL	ug/Kg	
SL-025-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.50	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.56	1.9	PQL	ug/Kg	
SL-025-SA5C-SB-9.0-10.0	AROCLOR 1254	J	0.60	1.9	PQL	ug/Kg	J (all detects)
SL-028-SA5C-SB-4.0-5.0	AROCLOR 1248	J	0.67	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	1.1	1.9	PQL	ug/Kg	
	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	ACETONE	J	7.4	8.2	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.53	4.1	PQL	ug/Kg	
SL-018-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.47	4.2	PQL	ug/Kg	J (all detects)
SL-024-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.45	4.5	PQL	ug/Kg	J (all detects)
SL-025-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.63	3.9	PQL	ug/Kg	J (all detects)
SL-025-SA5C-SB-9.0-10.0	ACETONE	J	7.1	7.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.5	3.7	PQL	ug/Kg	
SL-028-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.87	4.3	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA5C-QC-120610	ANTHRACENE	J	0.58	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	Dimethylphthalate	J	17	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.86	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	1.9	PQL	ug/Kg	
SL-018-SA5C-SB-4.0-5.0	BENZO(A)PYRENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.78	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.77	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.91	1.9	PQL	ug/Kg	
	PYRENE	J	0.80	1.9	PQL	ug/Kg	
SL-024-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE029 **Laboratory: LL**

EDD Filename: DE029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-025-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.8	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.9	PQL	ug/Kg	
	PYRENE	J	1.8	1.9	PQL	ug/Kg	
SL-028-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.96	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.75	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	20	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	PYRENE	J	1.7	1.8	PQL	ug/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil/Water
Parameters:	Volatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
TB-120610
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 8 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
12/8/10 (00:30)	4-Methyl-2-pentanone 2-Hexanone 1,2-Dibromo-3-chloropropane	29 36 28	All soil samples in SDG DE029	J (all detects) UJ (all non-detects)	A
12/8/10 (00:53)	Chlorotrifluoroethene	60	All soil samples in SDG DE029	J (all detects) UJ (all non-detects)	A
12/8/10 (12:04)	4-Methyl-2-pentanone 2-Hexanone 1,2-Dibromo-3-chloropropane	40 50 36	All water samples in SDG DE029	J (all detects) UJ (all non-detects)	A

Date	Compound	%D	Associated Samples	Flag	A or P
12/8/10 (12:25)	Chlorotrifluoroethene Freon 133a	58 27	All water samples in SDG DE029	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
11/23/10	2-Hexanone	28	All soil samples in SDG DE029	J (all detects) UJ (all non-detects)	A
11/10/10	Acetone	40	All water samples in SDG DE029	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKB09	12/8/10	Methylene chloride Toluene	0.8 ug/Kg 0.1 ug/Kg	All soil samples in SDG DE029

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
DUP12-SA5C-QC-120610	Methylene chloride	0.53 ug/Kg	4.1U ug/Kg
SL-018-SA5C-SB-4.0-5.0	Methylene chloride	0.47 ug/Kg	4.2U ug/Kg
SL-028-SA5C-SB-4.0-5.0	Methylene chloride	0.87 ug/Kg	4.3U ug/Kg

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-024-SA5C-SB-4.0-5.0	Methylene chloride	0.45 ug/Kg	4.5U ug/Kg
SL-025-SA5C-SB-4.0-5.0	Methylene chloride	0.63 ug/Kg	3.9U ug/Kg
SL-025-SA5C-SB-9.0-10.0	Methylene chloride	1.5 ug/Kg	3.7U ug/Kg

Sample TB-120610 was identified as a trip blank. No volatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS/MSD (SL-028-SA5C-SB-4.0-5.0)	Chlorotrifluoroethene	167 (70-130)	170 (70-130)	-	J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS (All soil samples in SDG DE029)	Chlorotrifluoroethene	140 (22-131)	-	-	J (all detects)	P
LCS/LCSD (All water samples in SDG DE029)	1,2-Dibromo-3-chloropropane	-	126 (66-120)	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No volatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
Acetone	7.4	8.7U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 TB-120610	4-Methyl-2-pentanone 2-Hexanone 1,2-Dibromo-3-chloropropane	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE029	TB-120610	Chlorotrifluoroethene Freon 133a	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE029	TB-120610	Acetone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE029	SL-028-SA5C-SB-4.0-5.0	Chlorotrifluoroethene	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	Chlorotrifluoroethene	J (all detects)	P	Laboratory control samples (%R) (L)
DE029	TB-120610	1,2-Dibromo-3-chloropropane	J (all detects)	P	Laboratory control samples (%R) (L)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 TB-120610 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Acetone	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE029

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE029	DUP12-SA5C-QC-120610	Methylene chloride	4.1U ug/Kg	A	B
DE029	SL-018-SA5C-SB-4.0-5.0	Methylene chloride	4.2U ug/Kg	A	B
DE029	SL-028-SA5C-SB-4.0-5.0	Methylene chloride	4.3U ug/Kg	A	B
DE029	SL-024-SA5C-SB-4.0-5.0	Methylene chloride	4.5U ug/Kg	A	B
DE029	SL-025-SA5C-SB-4.0-5.0	Methylene chloride	3.9U ug/Kg	A	B
DE029	SL-025-SA5C-SB-9.0-10.0	Methylene chloride	3.7U ug/Kg	A	B

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C1a **VALIDATION COMPLETENESS WORKSHEET** Date: 5/9/11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 30, r^2
IV.	Continuing calibration/ICV	SW	ICV / CCV ≤ 25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D= 1,3
XVII.	Field blanks	ND	TB = 5

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

Validated Samples: soil + water

1	DUP12-SA5C-QC-120610	T1	VBLKB09	21		31	
2	SL-018-SA5C-SB-4.0-5.0	T2	VBLKY29	22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-024-SA5C-SB-4.0-5.0	14		24		34	
5	TB-120610 W	15	—	25		35	
6	SL-025-SA5C-SB-4.0-5.0	16		26		36	
7	SL-025-SA5C-SB-9.0-10.0	17		27		37	
8	SL-028-SA5C-SB-4.0-5.0MS	18		28		38	
9	SL-028-SA5C-SB-4.0-5.0MSD	19		29		39	
10		20		30		40	

LDC #: 25337C/a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 53370|a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X Regional Quality Assurance Review				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
X Target Compounds				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
X Compound Quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
X Tentatively Identified Compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
X System Performance				
System performance was found to be acceptable.	✓			
X Overall Assessment of Data				
Overall assessment of data was found to be acceptable.	✓			
X Field Duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
X Field Blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 25337C/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	11/23/10	ICV	Z	28		all soils	J/UJ/A (C)
	11/10/10	ICV	F	40		all waters	J/UJ/A (C)
	12/08/10 0030	CCV	Y	29		all soils	↓
			Z	36			
			MM	28			
	12/08/10 0053	CCV	chlorotrifluoroethene	60		all soils	↓
	12/8/10 12:04	CCV	Y	40		all waters	↓
			Z	50		↓	
			MM	36		↓	↓
	12/8/10 12:25	CCV	chlorotrifluoroethene	58		↓	↓
			Freon 133a	27		↓	↓

LDC #: 25337c/c

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y/N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 12/8/10
Conc. units: ug/kg
Associated Samples: All soils

Compound	Blank ID	Sample Identification								
	VBLK309	1	2	3	4	6	7			
E	0.8	0.53/4.1U	0.47/4.2U	0.87/4.3U	0.45/4.5U	0.63/3.9U	1.5/3.7U			
CC	0.1	-	-	-	-	-				
CROI										

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
CROI										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 25337C/e

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer:

METHOD : GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	8+9	*	167 (~~72-157~~ 70-130)	170 (~~23-134~~ 70-130)	( )	3	J/A det (Q)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
	* chlorotrifluoroethene(		)	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC #: 25337C/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?
Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS	*	140 (22-131)	( )	( )	All soils	J/Pdet (L)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
		LCS/D	MM	( )	126 (66-120)	( )	All HW	J det/P (L)
				( )	( )	( )		
				( )	( )	( )		
		* chlorotrifluoroethene		( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25337C/a

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: F2
2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

(Y) N N/A Were field duplicate pairs identified in this SDG?
(Y) N N/A Were target compounds detected in the field duplicate pairs?

(FD)

Compound	Concentration (ng/kg) 1	3	≤ 50 RPD	
F	7.4 ~~6.9~~	~~2348.7 U~~	200	J/UJ/A
E	0.53 ~~0.53~~	0.87	49	-

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 25337e/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/23/10	C (1st internal standard)	0.3865	0.3865	0.3806	0.3806	4	4
			CC (2nd internal standard)	0.7997	0.7997	0.8561	0.8561	9	9
			JJJ (3rd internal standard)	1.3628	1.3628	1.4115	1.4115	9	9
			(4th internal standard)						
2	ICAL	11/10/10	C (1st internal standard)	0.4983	0.4983	0.5095	0.5095	2	2
			CC (2nd internal standard)	0.9808	0.9808	0.9925	0.9925	5	5
			JJJ (3rd internal standard)	1.5950	1.5950	1.5784	1.5784	7	7
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	12/08/10	C (1st internal standard)	0.3806	0.3486	0.3486	8	8
			CC (2nd internal standard)	0.8561	0.8100	0.8100	5	5
			JJJ (3rd internal standard)	1.4115	1.1995	1.1995	15	15
			(4th internal standard)					
2			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	50.0	51.508	103	103	0
1,2-Dichloroethane-d4	↓	50.078	100	100	↓
Toluene-d8	↓	48.462	97	97	↓
Bromofluorobenzene	↓	45.547	91	91	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 25337 c/c

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = | MSC - MSC | * 2/(MSC + MSDC) MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD sample: 8 + 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-----	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	20	~~20~~ 21.3	ND	23.5	25.1	117	117	118	118	1	1
Trichloroethene	↓	↓	↓	21.7	23.1	108	108	109	109	1	1
Benzene				22.5	23.8	112	112	112	112	0	0
Toluene				22.0	23.3	110	110	109	109	1	1
Chlorobenzene				21.1	22.2	105	105	104	104	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c/9

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS 8011

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	20.0	NA	20.27	NA	101	101				
Trichloroethene	↓		20.09	↓	100	100				
Benzene		↓	20.76		104	104				
Toluene			19.84		99	99				
Chlorobenzene	↓	↓	19.40	↓	97	97	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C/S

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, F:

Conc. = $\frac{(10281)(50)(5)}{(985061)(0.0723)(5.54)(0.879)}$

=

= 7.4 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil/Water
Parameters:	1,4-Dioxane
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
TB-120610
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 8 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0%.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% .

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% .

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-dioxane was found in the method blanks.

Sample TB-120610 was identified as a trip blank. No 1,4-dioxane was found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No 1,4-dioxane was detected in any of the samples.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 TB-120610 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C1b **VALIDATION COMPLETENESS WORKSHEET** Date: 5/9/11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	~~SW~~ A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 1, 3
XVII.	Field blanks	ND	TB = 5

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

Validated Samples: soil + water

1	DUP12-SA5C-QC-120610	11	YBLKE60	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12	YBLKE59	22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-024-SA5C-SB-4.0-5.0	14		24		34	
5	TB-120610 W	15		25		35	
6	SL-025-SA5C-SB-4.0-5.0	16		26		36	
7	SL-025-SA5C-SB-9.0-10.0	17		27		37	
8	SL-028-SA5C-SB-4.0-5.0MS	18		28		38	
9	SL-028-SA5C-SB-4.0-5.0MSD	19		29		39	
10		20		30		40	

LDC #: 25337c1b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: a

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of $\geq$ 0.990?			✓	
Were all percent relative standard deviations (%RSD) $\leq$ 30% and relative response factors (RRF) $\geq$ 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) $\leq$ 25% and relative response factors (RRF) $\geq$ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogates				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337c1b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XI. Target Compounds				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	NA		✓	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?			✓	
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound Quantitation and CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?			✓	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively Identified Compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
XIV. System Performance				
System performance was found to be acceptable.	✓			
XV. Overall Assessment				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field Duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XVII. Field Blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 25337c1b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (5 std)	Recalculated RRF (5 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/7/10	1,4-Dioxane (1st internal standard)	1.3539	1.3539	1.3396	1.3396	2	2
			(2nd internal standard)						
			(3rd internal standard)	(10)	(10)				
	ICAL	11/01/10	↓ (4th internal standard)	1.3359	1.3359	1.3219	1.3219	1	1
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c1b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	acv	12/9/10	1,4-Dioxane (1st internal standard)	1.3396	1.3538	1.3538	1	1
			(2nd internal standard)					
	acv	12/9/10	(3rd internal standard)					
	5:26		↓ (4th internal standard)	1.3219	1.3919	1.3919	5	5
2			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Dibromofluoromethane~~					
~~1,2-Dichloroethane-d4~~					
Toluene-d8	10	9.76	98	98	0
~~Bromofluorobenzene~~					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 25337c1b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD sample: 8 + 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	----	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,4-Dioxane (1,1-Dichloroethene)	263.0	220.0	ND	115	100	44	44	46	46	4	4
Trichloroethene											
Benzene											
Toluene											
Chlorobenzene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS/D 801 1

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene										
Trichloroethene										
Benzene										
Toluene										
Chlorobenzene										
1,4-Dioxane	125.0	125.0	139.44	133.78	112	112	107	107	4	4

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55337C1b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. _____, _____:

Conc. = ( ) ( ) ( ) / ( ) ( ) ( ) ( )

=

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 6, 2010

LDC Report Date: May 10, 2011

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-024-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semilvolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS/MSD (SL-028-SA5C-SB-4.0-5.0)	Benzidine	30 (35-141)	-	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No semivolatiles were detected in any of the samples.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	SL-028-SA5C-SB-4.0-5.0	Benzidine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C2a **VALIDATION COMPLETENESS WORKSHEET** Date: 5/9/11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: F
2nd Reviewer:

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 1, 3
XVII.	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	DUP12-SA5C-QC-120610	11	SDLKLA344	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-024-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-4.0-5.0	15		25		35	
6	SL-025-SA5C-SB-9.0-10.0	16		26		36	
7	SL-024-SA5C-SB-9.0-10.0	17		27		37	
8	SL-028-SA5C-SB-4.0-5.0MS	18		28		38	
9	SL-028-SA5C-SB-4.0-5.0MSD	19		29		39	
10		20		30		40	

LDC #: 25337C29

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337C2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnephthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25337C29

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A — Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

(Y) N N/A — Was a MS/MSD analyzed every 20 samples of each matrix?

Y (N) N/A — Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		8+9	SSS	30 (35-141)	( )	( )	3	J/UJ/A Q

MSD.2S

LDC #: 25337C2a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	1001L	12/2/10	Phenol (1st internal standard)	2.649	2.649	2.738	2.738	5	5
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.469	0.469	0.474	0.474	2	2
			~~Fluorene~~ 2-nitroaniline (3rd internal standard)	0.409	0.409	0.414	0.414	2	2
			Pentachlorophenol (4th internal standard)	0.145	0.145	0.139	0.139	5	5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.859	0.859	0.835	0.835	4	4
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.560	1.560	1.477	1.477	5	5
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C29

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	e1947	12/13/10	Phenol (1st internal standard)	2.738	2.869	2.869	5	5
			~~Naphthalene~~ nitrobenzene (2nd internal standard)	0.474	0.485	0.485	2	2
			~~Fluorene~~ 2-nitroaniline (3rd internal standard)	0.414	0.411	0.411	1	1
			Pentachlorophenol (4th internal standard)	0.139	0.132	0.132	5	5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.835	0.846	0.846	1	1
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.477	1.731	1.731	17	17
2	e1050	12/14/10	Phenol (1st internal standard)	↓	2.907	2.907	6	6
			~~Naphthalene~~ nitrobenzene (2nd internal standard)		0.472	0.472	0	0
			~~Fluorene~~ 2-nitroaniline (3rd internal standard)		0.419	0.419	1	1
			Pentachlorophenol (4th internal standard)		0.127	0.127	8	8
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.823	0.823	1	1
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)		1.584	1.584	7	7
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: 2

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	80.849	81	81	0
2-Fluorobiphenyl	↓	90.510	91	91	↓
Terphenyl-d14	↓	89.368	89	89	
Phenol-d5	200	176.826	88	88	
2-Fluorophenol	↓	172.70	86	86	
2,4,6-Tribromophenol	↓	155.765	78	78	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25337c29

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1666.67	1666.67	ND	1566.76	1680.63	94	94	101	101	7	7
N-Nitroso-di-n-propylamine				1492.48	1623.17	90	90	97	97	7	7
4-Chloro-3-methylphenol				1607.53	1689.86	96	96	101	101	5	5
Acenaphthene				1619.16	1682.10	97	97	101	101	4	4
Pentachlorophenol				1035.02	1152.25	62	62	69	69	11	11
Pyrene				1766.88	1806.01	106	106	108	108	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2s

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ng/kg)		Spike Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1666.67	NA	1548.69	NA	93	93				
N-Nitroso-di-n-propylamine	↓	↓	1498.11	↓	90	90				
4-Chloro-3-methylphenol			1634.71		98	98				
Acenaphthene										
Pentachlorophenol			1236.32	NA	74	74	NA			
Pyrene										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C29

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. _____ , _____:

Conc. = $\frac{(\quad)(\quad)(\quad)(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)(\quad)(\quad)}$

= ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-024-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semilvolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS/MSD (SL-028-SA5C-SB-4.0-5.0)	Dimethylphthalate Benzo(g,h,i)perylene	- -	119 (74-118)	- 34 (≤30)	J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
Bis(2-ethylhexyl)phthalate	6.8U	10	200 (≤50)	J (all detects) UJ (all non-detects)	A
Dimethylphthalate	17	20U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Anthracene	0.58	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(a)anthracene	2.8	1.1	87 (≤50)	J (all detects)	A
Benzo(a)pyrene	2.0	1.5	29 (≤50)	-	-
Benzo(b)fluoranthene	4.3	2.6	49 (≤50)	-	-
Benzo(g,h,i)perylene	1.0	0.96	4 (≤50)	-	-
Benzo(k)fluoranthene	1.6	0.75	72 (≤50)	J (all detects)	A
Chrysene	3.6	1.7	72 (≤50)	J (all detects)	A
Fluoranthene	6.7	1.7	119 (≤50)	J (all detects)	A
Indeno(1,2,3-cd)pyrene	0.86	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Naphthalene	1.4	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Phenanthrene	7.0	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Pyrene	5.6	1.7	107 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	SL-028-SA5C-SB-4.0-5.0	Dimethylphthalate	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	SL-028-SA5C-SB-4.0-5.0	Benzo(g,h,i)perylene	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Bis (2-Ethylhexyl) phthalate Dimethylphthalate Anthracene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Benzo(a)anthracene Benzo(k)fluoranthene Chrysene Fluoranthene Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C2b **VALIDATION COMPLETENESS WORKSHEET** Date: 5/9/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: TP

SVOA 2nd Reviewer: A

METHOD: GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ (EPA SW 846 Method 8270C-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1,3
XVII.	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	DUP12-SA5C-QC-120610	11	SBLKLB344	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-024-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-4.0-5.0	15		25		35	
6	SL-025-SA5C-SB-9.0-10.0	16		26		36	
7	SL-024-SA5C-SB-9.0-10.0	17		27		37	
8	SL-028-SA5C-SB-4.0-5.0MS	18		28		38	
9	SL-028-SA5C-SB-4.0-5.0MSD	19		29		39	
10		20		30		40	

LDC #: 25337e2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337c2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: 1

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25337c2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: A

METHOD : GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	8+9	CC	( )	119 (74-118)	( )	3	J/A dil (a)
		LLL	( )	( )	34 (30)	↓	↓ ↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
H.	1,1-Dichloroethene	59-172%	≤ 22%	61-145%	≤ 14%
S.	Trichloroethene	62-137%	≤ 24%	71-120%	≤ 14%
V.	Benzene	66-142%	≤ 21%	76-127%	≤ 11%
CC.	Toluene	59-139%	≤ 21%	76-125%	≤ 13%
DD.	Chlorobenzene	60-133%	≤ 21%	75-130%	≤ 13%

LDC#: 25337C2b **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: PT
2nd Reviewer: [illegible]

METHOD: GC/MS SVOA (EPA SW 846 Method 8270D-SIM)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

(FD)

Compound	Concentration (ug/kg)		≤50 RPD	
	1	3		
Bis (2-Ethylhexyl) phthalate	6.8U	10	200	J/UJ/A
Dimethylphthalate	17	~~6.8U~~ 20 U	200	↓
Anthracene	0.58	~~0.27U~~ 1.8 U	200	↓
Benzo(a)anthracene	2.8	1.1	87	J/A dit
Benzo(a)pyrene	2.0	1.5	29	–
Benzo(b)fluoranthene	4.3	2.6	49	–
Benzo(g,h,i)perylene	1.0	0.96	4	–
Benzo(k)fluoranthene	1.6	0.75	72	J/A dit
Chrysene	3.6	1.7	72	↓
Fluoranthene	6.7	1.7	119	↓
Indeno(1,2,3-cd)pyrene	0.86	~~0.74U~~ 1.8 U	200	J/UJ/A
Naphthalene	1.4	~~0.74U~~ 1.8 U	200	↓
Phenanthrene	7.0	0.74U 1.8 U	200	↓
Pyrene	5.6	1.7	107	J/A dit

LDC #: 25337c2b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF ((1) std)	Recalculated RRF ( ) std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/8/10	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	1.092	1.092	1.138	1.138	7	7
			Fluorene (3rd internal standard)	1.340	1.340	1.371	1.371	8	8
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.163	1.163	1.183	1.183	9	9
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.220	1.220	1.252	1.252	6	6
			Benzo(a)pyrene (6th internal standard)	1.240	1.240	1.266	1.266	8	8
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c26

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv	12/11/10	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.138	1.052	1.052	8	8
			Fluorene (3rd internal standard)	1.371	1.276	1.276	7	7
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.183	1.074	1.074	9	9
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.252	1.158	1.158	8	8
			Benzo(a)pyrene (6th internal standard)	1.264	1.174	1.174	7	7
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c2b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	0.923	92	92	0
2-Fluorobiphenyl	↓	0.830	83	83	↓
Terphenyl-d14		0.821	82	82	
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25337226

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	33.33	33.33	ND	29.35	31.45	88	88	94	94	6	6
Pentachlorophenol											
Pyrene	↓	↓	1.52	29.59	32.25	84	84	92	92	9	9

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene	33.33	NA	30.63	NA	92	92				
Pentachlorophenol										
Pyrene	↓	↓	29.82	↓	89	89	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

(Y) N N/A Were all reported results recalculated and verified for all level IV samples?
(Y) N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1 , S :

Conc. = (~~21399~~ 29417)(1)(1000)( )( )
(~~502367~~ 431157)(~~0.879~~ 1.266)(30)(0.879)( )

= 2.044 ng/kg ✓

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 6, 2010

LDC Report Date: May 10, 2011

Matrix: Soil

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required for by this method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% .

The percent difference (%D) of the second source calibration standard were less than or equal to 30.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were not required by the method.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No N-nitrosodimethylamine was detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
N-nitrosodimethylamine	168	51.2	107 (≤50)	J (all detects)	A

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	N-Nitrosodimethylamine	J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C2c **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II.	GC/MS Instrument performance check	N	Not Required
III.	Initial calibration	A	%RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV ≤ 30 CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1,3
XVII.	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

93	1	DUP12-SA5C-QC-120610 D	11	SBLKLF3451	21		31	
94	2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
95	3	SL-028-SA5C-SB-4.0-5.0 D	13		23		33	
201	4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
202	5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
96	6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
97	7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
	8		18		28		38	
	9		19		29		39	
	10		20		30		40	

LDC #: 25337C2C

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?			✓	
Were all samples analyzed within the 12 hour clock criteria?			✓	
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ ~~25%~~ 20 and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?			✓	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337c2c

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: C

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337C2C

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

1625C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

Compound	Concentration (ng/kg)		≤ 50 RPD
	1	3	
N-Nitrosodimethylamine	168	51.2	107 (FD) J/A det

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 25337C2c

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

1625C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (25 std)	Recalculated RRF (25 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/21/10	~~Phenol~~ N-Nitrosodimethylamine (1st internal standard)	0.970	0.970	1.112	1.112	11	11
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

1625C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270C)~~

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	a1470e	12/24/10	~~Phenol~~ NDMA (1st internal standard)	1.112	0.925	0.925	17	17
			~~Naphthalene (2nd internal standard)~~					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2	a1481	12/24/10	~~Phenol~~ NDMA (1st internal standard)	1.112	1.01937	1.01937	8.29	8.29
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c2c

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

1625C

METHOD: ~~GC/MS BNA (EPA SW-846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 6 + 7

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
N. Nitrosodimethylamine ~~Phenol~~	915.75	915.75	50.95	809.40	825.36	83	83	85	85	2	2
~~N-Nitroso-di-n-propylamine~~											
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
~~Pyrene~~											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2c

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

1625C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ng/kg)		Spike Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
N-Nitrosodimethylamine	833.33	NA	759.80	NA	91	91	NA			
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C2C

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

V_i = Volume of extract injected in microliters (ul)

V_t = Volume of the concentrated extract in microliters (ul)

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

2.0 = Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1, ND MA

Conc. = $\frac{(30151)(25)(1000)}{(152650)(1.112)(30)(0.879)}$ =

168 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Polychlorinated Biphenyls
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-024-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
DUP12-SA5C-QC-120610	Aroclor-1254	83.68	J (all detects)	A
SL-025-SA5C-SB-4.0-5.0	Aroclor-1254	86.08	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
Aroclor 5460	1.1	7.0	146 (≤50)	J (all detects)	A
Aroclor 1254	0.71	1.1	43 (≤50)	-	-
Aroclor 1260	1.6	1.3	21 (≤50)	-	-
Aroclor 1248	1.9U	0.67	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-025-SA5C-SB-4.0-5.0	Aroclor-1254	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Aroclor 5460	J (all detects)	A	Field duplicates (RPD) (FD)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Aroclor 1248	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C3b **VALIDATION COMPLETENESS WORKSHEET** Date: 5/9/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: P

2nd Reviewer: A

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6 | 10
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% RSD ≤ 20
IV.	Continuing calibration/ICV	A SW	RY | CCY ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples A	SW	LCS 1(1)
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 1,3
XVI.	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	DUP12-SA5C-QC-120610 (soil)	11	PBLK16344	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-024-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-4.0-5.0	15		25		35	
6	SL-025-SA5C-SB-9.0-10.0	16		26		36	
7	SL-024-SA5C-SB-9.0-10.0	17		27		37	
8	SL-028-SA5C-SB-4.0-5.0MS	18		28		38	
9	SL-028-SA5C-SB-4.0-5.0MSD	19		29		39	
10		20		30		40	

Notes:

LDC #: 25337c3b
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer:

Method: ✓ GC ____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337C3b

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer:

METHOD: GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD But 2 column Finding ≤ 40	Associated Samples	Qualifications
	AA	83.6%	1	J/A but (* X111)
	AA	86.0%	5	↓

Comments: See sample calculation verification worksheet for recalculations

LDC#: 25337C3b **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC PCB (EPA Method 8082)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs? (FD)

Compound	Concentration (ug/Kg) 1	3	≤50 RPD	
Aroclor 5460	1.1	7.0	146	J/A
~~PCB~~ - 1254	0.71	1.1	43	—
PCB - 1260	1.6	1.3	21	—
PCB - 1248	~~0.380~~ 1.94	0.67	~~56~~ 200	J/UJ/A

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LDC #: 33373b
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (200 std)	Recalculated CF (200 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/30/10	Aroclor 1260-1 ZBR1	158	158	156	152	7.6	7.6
			ZBR2	299	299	293	293	5.6	5.6
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 75337c3h
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: EJ
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	SC20334.04	12/14/10	Aroclor 1260 ZBR1	200.0	205.65	205.65	2.8	2.8
			ZBR2	200.0	213.10	213.10	6.6	6.6
2	SC20334.28	12/14/10	↓	↓	196.95	196.95	1.5	1.5
					209.40	209.40	4.7	4.7
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 33/ C3 D
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ZB R2	1.04	1.0104	97	97	0
PCB	ZB R1	1	0.95446	92	92	0

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

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LDC #: 25337C3B
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA   Where   SSC = Spiked sample concentration   SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100   MS = Matrix spike   MSD = Matrix spike duplicate

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/Kg)		Sample Conc. (ug/Kg)	Spike Sample Concentration (ug/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
PCB-1260	16.67	16.67	1.3	18	18	91	91	89	89	3	3

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c35
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F
2nd Reviewer: 1

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
PCB 1260	16.67	ND	19	NA	115	115	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c36
SDG #: [illegible] [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name Aroclor 1260 U

Concentration = 1.3835 / 0.879

= 1.6 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications
	ZBB2				
	Aroclor 1260-4	4656.860352(2000) / (263)(1000)(60) = 0.590223			
	1260-4 =	0.590223			
	-5 =	0.63292			
	-6 =	2.927474			
	Avg =	1.3835			

Comments: _____

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 3, 2011
Matrix:	Soil
Parameters:	Metals
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-024-SA5C-SB-9.0-10.0
SL-018-SA5C-SB-4.0-5.0MS
SL-018-SA5C-SB-4.0-5.0MSD
SL-018-SA5C-SB-4.0-5.0DUP

Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Aluminum Calcium Copper Lead Lithium Phosphorus Tin	6.216 mg/Kg 7.058 mg/Kg 0.284 mg/Kg 0.013 mg/Kg 0.497 mg/Kg 0.819 mg/Kg 1.726 mg/Kg	All samples in SDG DE029
ICB/CCB	Beryllium	0.15 ug/L	All samples in SDG DE029
ICB/CCB	Titanium	0.38 ug/L	SL-024-SA5C-SB-4.0-5.0
ICB/CCB	Titanium	0.91 ug/L	SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
DUP12-SA5C-QC-120610	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-018-SA5C-SB-4.0-5.0	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-024-SA5C-SB-4.0-5.0	Tin	2.6 mg/Kg	2.6U mg/Kg
SL-025-SA5C-SB-4.0-5.0	Tin	2.8 mg/Kg	2.8U mg/Kg
SL-025-SA5C-SB-9.0-10.0	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-024-SA5C-SB-9.0-10.0	Tin	2.8 mg/Kg	2.8U mg/Kg

No field blanks were identified in this SDG.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-014-SA5C-SB-9.0-10.0MS/MSD (All samples in SDG DE029)	Phosphorus	-	-	23 (≤20)	J (all detects) UJ (all non-detects)	A
SL-018-SA5C-SB-4.0-5.0MS/MSD (All samples in SDG DE029)	Antimony	48 (75-125)	41 (75-125)	-	J (all detects) UJ (all non-detects)	A
	Barium	-	-	22 (≤20)		
SL-018-SA5C-SB-4.0-5.0MS/MSD (All samples in SDG DE029)	Arsenic	170 (75-125)	139 (75-125)	-	J (all detects)	A
	Beryllium	128 (75-125)	-	-	J (all detects)	
	Chromium	145 (75-125)	138 (75-125)	-	J (all detects)	
	Copper	126 (75-125)	126 (75-125)	-	J (all detects)	
	Lead	195 (75-125)	135 (75-125)	-	J (all detects)	
	Nickel	138 (75-125)	-	-	J (all detects)	
	Vanadium	197 (75-125)	169 (75-125)	-	J (all detects)	

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-018-SA5C-SB-4.0-5.0DUP (All samples in SDG DE029)	Zinc	27 (≤20)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-018-SA5C-SB-4.0-5.0	Barium Chromium Cobalt Copper Vanadium	11 (≤10) 20 (≤10) 30 (≤10) 33 (≤10) 22 (≤10)	All samples in SDG DE029	J (all detects) UJ (all non-detects)	A

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE029	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE029

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Phosphorus Barium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Arsenic Beryllium Chromium Copper Lead Nickel Vanadium	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Zinc	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Barium Chromium Cobalt Copper Vanadium	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE029

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE029	DUP12-SA5C-QC-120610	Tin	2.4U mg/Kg	A	B
DE029	SL-018-SA5C-SB-4.0-5.0	Tin	2.4U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE029	SL-024-SA5C-SB-4.0-5.0	Tin	2.6U mg/Kg	A	B
DE029	SL-025-SA5C-SB-4.0-5.0	Tin	2.8U mg/Kg	A	B
DE029	SL-025-SA5C-SB-9.0-10.0	Tin	2.4U mg/Kg	A	B
DE029	SL-024-SA5C-SB-9.0-10.0	Tin	2.8U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 4-29-11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OR
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	A	Sampling dates: 12/6/10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	~~A~~ SW	LCS
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	(parent sample not analyzed for metals)
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	DUP12-SA5C-QC-120610	11		21	PBS	31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-024-SA5C-SB-4.0-5.0	13		23		33	
4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-024-SA5C-SB-9.0-10.0	16		26		36	
7	(MS) MS	17		27		37	
8	↓ MSD	18		28		38	
9	↓ DUP	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25339C4

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: VC

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

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			/	
Do all applicable analysies have duplicate injections? (Level IV only)			/	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			/	
Were analytical spike recoveries within the 85-115% QC limits?			/	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	/			
Were all percent differences (%Ds) < 10%?		/		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		/		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	/			
If the %Rs were outside the criteria, was a reanalysis performed?	/			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		/		
Were the performance evaluation (PE) samples within the acceptance limits?			/	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		/		
Target analytes were detected in the field duplicates.			/	
XV. Field blanks				
Field blanks were identified in this SDG.		/	/	
Target analytes were detected in the field blanks.			/	

LDC #: 25337C4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-6		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25337C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x (MS: 2xdil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

Reason: B

				Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	1	2	3	4	5	6					
Al	6.216		31.08											
Be		0.15	0.15											
Ca	7.058		35.29											
Cu	0.284		1.42											
Pb	0.013		0.065											
Li	0.497		2.485											
P	0.819		4.095											
Sn	1.726		8.63	2.4	2.4	2.6	2.8	2.4	2.8					

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 3

				Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	No Qualifiers (>5x)										
Ti		0.38	0.19											

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 4-6

				Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	No Qualifiers (>5x)										
Ti		0.91	0.455											

LDC #: 25337C4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: CR
2nd Reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	12/12/10	ICSA (16:08)	Mn	4 (≤0.78)	1,3,4	No Qual (<10x)
	12/12/10	ICSA (18:06)	Mn	4 (≤0.78)	↓	↓

Comments: _____

LDC #: 25331C4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

(Y) N N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	SL-014-SA5C-SB-9.0-10.0 (SDG: DE030)		P			23 (≤20)	All	J/UJ/A (E)
	7/8		Sb	48	41		All	J/UJ/A (Q)
			As	170	139			Jdet/A
			Be			22		J/UJ/A (E)
			Be	128				Jdet/A (Q)
			Cr	145	138			
			Cu	126	126			
			Pb	195	135			
			Ni	138				
			V	197	169			

Comments:

LDC #: 25335IC4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		9	S	Zn	27 (≤20)		All	J (all A CE)

Comments: _____

DUP.4SW

LDC #: 25333IC4

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?
Y (N) N/A Were ICP serial dilution percent differences (%D) ≤10%?
Y (N) N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
		2	S	Ba	11	All	J/UJ/A (A)
				Cr	20	↓	↓
				Co	30		
				Cu	33		
				V	22		

Comments:

LDC #: 25337C4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: CS
2nd Reviewer:

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

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Al	28878.58	30000	96.3	96.3	T
ICV	ICP/MS (Initial calibration)	Sb	51.01	50	102.0	102.0	
ICV	CVAA (Initial calibration)	Hg	2.55	2.5	102.0	102.0	
CCV2	ICP (Continuing calibration)	Mg	25169.66	25000	100.7	100.7	
CCV2	ICP/MS (Continuing calibration)	As	24.69	25	98.8	98.8	
CCV	CVAA (Continuing calibration)	Hg	1.01	1	101.0	101.0	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 2
Reviewer: CR
2nd Reviewer:

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

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units) mg/kg	True / D / SDR (units) mg/kg	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Cd	19.34 ug/L	20 ug/L	96.5	96.5	Y
LCS	Laboratory control sample	Zn	352.4	378.0	93	93	
7	Matrix spike	Cd	(SSR-SR) 1.3541 ~~1.4658~~ OR	1.1179	121	121	
9	Duplicate	V	36.8234	33.683	9	9	
2	ICP serial dilution	As	20.2100	21.7	7	7	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Al were recalculated and verified using the following equation:

Concentration = (RD)(FV)(Dil) / (In. Vol.)

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{(100mL)(169.72453 mg/L)}{0.917(1.00)} = 18509 mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	6	Al	18500	18500	Y
		As	5.7	5.7	
		Ba	66.1	66.1	
		Be	0.69	0.69	
		B	2.1	2.1	
		Cd	0.043	0.043	
		Ca	1190	1190	
		Cr	19.4	19.4	
		Co	3.8	3.8	
		Cu	6.2	6.2	
		Fe	19500	19500	
		Pb	6.2	6.2	
		Li	19.1	19.1	
		Mg	3490	3490	
		Mn	115	115	
		Hg	0.0033	0.0033	
		Mo	0.56	0.56	
		Ni	9.0	9.0	
		P	88.6	88.6	
		K	1750	1750	
		Se	0.049	0.049	
		Ag	0.023	0.023	
		Na	161	161	
		Sr	14.3	14.3	
		Tl	0.35	0.35	
		Sn	2.8	2.8	
		Ti	1090	1090	
		V	40.7	40.7	
		Zn	50.2	50.2	
		Zr	1.0	1.0	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 3, 2011
Matrix:	Soil
Parameters:	Wet Chemistry
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-024-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-024-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0DUP

Introduction

This data review covers 9 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Fluoride and Nitrate as Nitrogen, EPA SW 846 Method 7199 for Hexavalent Chromium, EPA SW 846 Method 9045C for pH, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

No field blanks were identified in this SDG.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS (SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0)	Fluoride	135 (80-120)	J (all detects)	A
SL-028-SA5C-SB-4.0-5.0MS (SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	Nitrate as N	40 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0DUP (SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0)	Fluoride	-	3.22 mg/Kg (≤2.2)	J (all detects) UJ (all non-detects)	A
SL-028-SA5C-SB-4.0-5.0DUP (SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0)	Nitrate as N	-	11.2 mg/Kg (≤3.4)	J (all detects) UJ (all non-detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE029	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
Fluoride	3.9 mg/Kg	0.88U mg/Kg	200 (≤50)	J (all detects) UJ (all non-detects)	A
Nitrate as N	3.6 mg/Kg	15.8 mg/Kg	126 (≤50)	J (all detects)	A

Analyte	Concentration		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
pH	7.19 units	8.00 units	11 (≤50)	-	-

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE029

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE029	SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Fluoride	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	Nitrate as N	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	Fluoride	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (Difference) (E)
DE029	SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	Nitrate as N	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (Difference) (E)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-024-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0 SL-024-SA5C-SB-9.0-10.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Fluoride	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Nitrate as N	J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C6 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-2-11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CB
2nd Reviewer: V

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-N, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), ~~Oxidation-Reduction Potential (ASTM D1498)~~, pH (EPA SW846 Method 9045C) Perchlorate (EPA 314.0)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	SW	MS
V	Duplicates	SW	DUP
VI.	Laboratory control samples	A	LCS/D
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	SW	(1,3)
X.	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	DUP12-SA5C-QC-120610	11		21	(MB)	31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-024-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-4.0-5.0	15		25		35	
6	SL-025-SA5C-SB-9.0-10.0	16		26		36	
7	SL-024-SA5C-SB-9.0-10.0	17		27		37	
8	SL-028-SA5C-SB-4.0-5.0MS	18		28		38	
9	SL-028-SA5C-SB-4.0-5.0DUP	19		29		39	
10		20		30		40	

Notes:

LDC #: 25576

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: CC
2nd Reviewer:

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.		✓		
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25337C6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [illegible]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3,5,6		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
4,7		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC 8		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
9		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

LDC #: 25333C6

VALIDATION FINDINGS WORKSHEET
Matrix Spike Analysis

Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of ~~75-125~~ 80-120 (85-115% for Method 300.0)? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Matrix Spike ID	Matrix	Analyte	%R	Associated Samples	Qualifications
		8	S	F	135	~~All~~ 3-7	Jdet/A (a)
				NO_3-N	40	~~All~~ 3,5,6	J/UJ/A

Comments:

LDC #: 25337C6

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Reviewer: CR
2nd Reviewer:

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water and ≤ 35% for soil samples (≤ 10% for Method 300.0)? If no, see qualification below. A control limit of ±CRDL (±2X CRDL for soil) was used for samples that were ≤5X the CRDL, including when only one of the duplicate sample values were ≤5X the CRDL. If field blanks were used for laboratory duplicates, see overall assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	Difference RPD (Limits)	Associated Samples ✓	Qualifications
		9	S	F	3.22 (≤2.2)	~~All~~ 3-4	J/UJ/A (E)
				NO3-N	11.2 (≤3.4)	~~1-3, 5~~ 3, 5, 6	↓ ↓

Comments:

DUP.6

LDC# 25337C6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	Qualifications: (Parents Only)
	1	3		
Fluoride	3.9	0.88U	~~125~~ 200	J/UJ/A (~~J~~)
Nitrate as N	3.6	15.8	126	Jdet/A (~~J~~)
pH (no units)	7.19	8.00	11	

V:\FIELD DUPLICATES\FD_inorganic\25337C6.wpd

lody (FD)

LDC #: 25537C6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Reviewer: AR
2nd Reviewer: [illegible]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 12/6/10

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found X 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/l)	Response	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	ClO4	s1	2	0.003	*1.000*	0.999	Y
		s2	4.00	0.01			
		s3	10.00	0.024			
		s4	25.00	0.063			
		s5	100.00	0.263			
Calibration verification	CN	CCV	0.15	0.14210	95	95	
Calibration verification	NO_3N		1.5	1.513089	101	—	
Calibration verification	F		↓	1.508695	101	—	↓

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 53376

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer:

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	ClO_4	473	500	95	-	Y
8	Matrix spike sample	Cr6+	(SSR-SR) 37.3	40	93	93	
9	Duplicate sample	NO_3-N	14.3	3.1	129	130	✓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25333C6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for NO_3-N reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$y = 0.3468x - 0.0049$

Recalculation:

$$\frac{\left(\frac{(0.493 + 0.0049)}{0.3468} \times 50\,mL\right)}{(0.906)(5.01\,g)} = 15.8\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	3	NO_3-N	15.8	15.8	Y
		8ft (rounds)	8.00	8.00	↓

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil/Water
Parameters:	Total Petroleum Hydrocarbons as Gasoline
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
TB-120610
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-120610 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No total petroleum hydrocarbons as gasoline were detected in any of the samples.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 TB-120610 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C7 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FT

2nd Reviewer:

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS 1D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 1, 3
XIII.	Field blanks	ND	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: Soil + water

1 1	DUP12-SA5C-QC-120610	11 1	BLK1R	21		31	
2 1	SL-018-SA5C-SB-4.0-5.0	12 2	BLK1P	22		32	
3 1	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4 2	TB-120610 W	14		24		34	
5 1	SL-025-SA5C-SB-4.0-5.0	15		25		35	
6 1	SL-025-SA5C-SB-9.0-10.0	16		26		36	
7 1	SL-028-SA5C-SB-4.0-5.0MS	17		27		37	
8 1	SL-028-SA5C-SB-4.0-5.0MSD	18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 53367C7
SDG #: all water

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer:

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C7
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓		✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XV. Field blanks				
Field blanks were identified in this SDG.	✓	✓		
Target compounds were detected in the field blanks.		✓		

LDC #: 25337C7
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC _____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (220std)	Recalculated CF (220std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL DB-624	11/29/10	GRO	35488	35488	37329	37329	12.7	12.7
2	ICAL Restek VRX	8/10/10	GRO	30949	30949	30328	30328	9.0	9.0
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C7
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV	12/9/10	GRO	220.00	204.36	204.36	7.1	7.1
	18:43							
2	CCV	12/9/10	GRO	550.00	510.59	510.59	7.2	7.2
	17:42							
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C7
SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [signature]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TFT	DB 624	653	522.7782	80	80	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 23551C
SDG #: see cover

Reviewer: FT
2nd Reviewer: A

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 7 + 8

Compound	Spike Added (mg/Kg)		Sample Conc. (mg/Kg)	Spike Sample Concentration (mg/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	9.26	9.26	ND	6.2	6.9	61	61	68	68	10	10
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C7
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: RP
2nd Reviewer: A

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 10

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	11	11	8.6	8.3	78	78	75	75	4	4
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C7
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS/MSD (SL-028-SA5C-SB-4.0-5.0)	TPH as extractables (C8-C11)	-	0 (49-123)	200 (≤20)	J (all detects) R (all non-detects)	A
	TPH as extractables (C12-C14)	-	0 (49-123)	200 (≤20)	J (all detects) R (all non-detects)	

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS/MSD (SL-028-SA5C-SB-4.0-5.0)	TPH as extractables (C15-C20)	-	-	21 (≤20)	J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No total petroleum hydrocarbons as extractables were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
TPH as extractables (C15-C20)	0.49	1.3U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Compound	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
TPH as extractables (C21-C30)	11	8.4	27 (≤50)	-	-
TPH as extractables (C30-C40)	28	21	29 (≤50)	-	-

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	SL-028-SA5C-SB-4.0-5.0	TPH as extractables (C8-C11) TPH as extractables (C12-C14)	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE029	SL-028-SA5C-SB-4.0-5.0	TPH as extractables (C15-C20)	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	TPH as extractables (C15-C20)	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C8 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11
SDG #: DE029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	%RSD ≤20
III.	Calibration verification/ICV	A	ICV/CCV ≤20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 1,3
XIII.	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	DUP12-SA5C-QC-120610 D	11	PBLK15354	21		31	
+ 2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
+ 3	SL-028-SA5C-SB-4.0-5.0 D	13		23		33	
+ 4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
+ 5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 53378
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer:

Method: ✓ GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C8
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 33768

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	6+7	EFH (C8-C11)	( )	0 (49-123)	200 (20)	3	J/R/Δ (Q)
		EFH (C12-C14)	( )	0 (49-123)	200 (20)		↓
		EFH (C15-C20)	( )	( )	21 (20)		J/A dit ↓
		EFH (C21-C30)	-184 (49-123)	507 (49-123)	132 (↓)		*
		EFH (C30-C40)	-449 (49-123)	156 4 (49-123)	151 (↓)		*
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )	* no qual parent 7 4X spike Amt	
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC#: 25337C8 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: F2
2nd Reviewer: [illegible]

METHOD: GC TPH as Extractables (Method 8015B)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (mg/Kg)		RPD	
	1	3		
EFH (C15-C20)	0.49	1.3J 0.44U	200	J/UJ/A (FD)
EFH (C21-C30)	11	8.4	27	
EFH (C30-C40)	28	21	29	

V:\FIELD DUPLICATES\templates\25337C8.wpd

LDC #: 25337c8
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (2XX std)	Recalculated CF (2XX std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/20/10	C8-C40	14501	14501	15019	15019	44	44
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 337cf
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: CA

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	J355.13R	12/21/10	Cx-C40	287.98	278.59	278.59	3.3	3.3
	J355.34R	12/22/10	Cx-C40	575.96	559.34	559.34	2.9	2.9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25357c8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
chlorobenzene	NS	1.0	0.531009	~~53~~	53	0
o-terphenyl	↓	↓	0.741961	74	74	0

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: 25337c8
SDG #: jw comes

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ
2nd Reviewer:

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
EFH (c8-c11)	0.84	0.84	ND	0.52	ND	52	52	0	0	200	200

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337G8
SDG #: all covers

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
EFH (C8-C11) ~~Gasoline~~ (8015)	0.84	NA	0.66	NA	79	79	NA			
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C8
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name $C_{21} - C_{30}$

Concentration = $\frac{8953546\ (\cancel{60})\ (1000)}{15019\ (60)\ (0.879)(1000)}$

= 11 mg/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Explosives
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
12/15/10	Chrompack	HMX	25.9	SL-025-SA5C-SB-9.0-10.0	J (all detects) UJ (all non-detects)	A
12/15/10	Capcell CN	Tetryl	21.8	SL-025-SA5C-SB-9.0-10.0	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No explosives were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
1,3-Dinitrobenzene	170U	260	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	SL-025-SA5C-SB-9.0-10.0	HMX Tetryl	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	1,3-Dinitrobenzene	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C40 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/9/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FT

2nd Reviewer: A

METHOD: HPLC Explosives (EPA SW 846 Method 8330A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	%RSD ≤ 30, r^2
III.	Calibration verification/ICV	SW	
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 1,3
XIII.	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	DUP12-SA5C-QC-120610	11	PBLK 05342	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337C40
SDG #: all covers

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: C

Method: ____ GC ✓ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C40
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: ____GC ____HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes: _____

LDC #: 25337C40

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: __GC ✓ HPLC

2nd Reviewer: A

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

What type of continuing calibration calculation was performed? __%D or __RPD

Y N N/A Were continuing calibration standards analyzed at the required frequencies?

Y/N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤15.0%? 20

Level IV Only

Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 15.0) 20	RT (limit)	Associated Samples	Qualifications
	12/15/10	CCV	Chrompack	A	25.9	( )	5	J/UJ/A (c)
	6:08		Capcell CN	E	21.8	( )	↓	↓
						( )		
						( )		
						( )		
						( )		
						( )		
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LDC #: 25337c40

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer:

METHOD: ___ GC ✓ HPLC

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit ≤ 50	Qualification Parent only / All Samples
	1	3		
D	57U 170U	~~55~~ 260	200	J/UJ/A (FD)

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 25337c4U
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC _____ HPLC ✓

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported 499.50 CF (494 std)	Recalculated 499.50 CF (494 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL chrompack	12/13/10	nitrobenzene	1.99×10^2	1.99×10^2	1.95×10^2	1.95×10^2	3.4	3.4
			3-Nitrotoluene	1.22×10^2	1.22×10^2	1.20×10^2	1.20×10^2	2.5	2.5
2	ICAL CAPCELL CN	12/13/10	↓	1.67×10^2	1.67×10^2	1.73×10^2	1.73×10^2	11.5	11.5
				1.96×10^2	1.96×10^2	1.97×10^2	1.97×10^2	4.4	4.4
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C4(1)
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: a

METHOD: GC_____HPLC ✓

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	ccv	12/14/10	Nitrobenzene	999.0	965.83	965.83	3.3	3.3
	21:39	chrompack	3-Nitrotoluene	988.0	991.27	991.27	0.3	0.3
2	ccv	12/15/10	↓	499.50	516.19	516.19	3.3	3.3
	6:08	chrompack	↓	494.00	498.15	498.15	0.8	0.8
3	ccv	12/14/10	↓	999.0	943.17	943.17	5.6	5.6
	21:39	Capcell CN	↓					
4		12/15/10	↓	499.50	517.33	517.33	3.6	3.6
	ccv:	~~chrompack~~ Capcell CN	↓					
	6:08							

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337040

SDG #: see cover

METHOD: ___ GC ✓ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: CL

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
2-Nitro-m-xylene	chrompack	~~2997~~ 2500	~~3171.892090~~ 2656.81	106	106	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: 13331C4U
SDG #: five waters

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: EZ
2nd Reviewer: [illegible]

METHOD: __ GC ✓ __ HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)	2500.31	2500.31	ND	2700	2500	99	99	101	101	2	2
2,4,6-Trinitrotoluene (8330)	2499	2499		2900	3000	106	106	107	107	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C4U
SDG #: see cover

Reviewer: FT
2nd Reviewer: C

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: __ GC ✓ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS IS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)	2500.31	NA	2400	NA	97	97				
2,4,6-Trinitrotoluene (8330)	2499	↓	2700	↓	107	107	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C4U

SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [signature]

2nd Reviewer: [signature]

METHOD: ___ GC ✓ HPLC

(Y) N N/A Were all reported results recalculated and verified for all level IV samples?

(Y) N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

$$\text{Concentration} = \frac{(A)(Fv)(Df)}{(RF)(Vs\text{ or }Ws)(\%S/100)}$$

A= Area or height of the compound to be measured

Fv= Final Volume of extract

Df= Dilution Factor

RF= Average response factor of the compound in the initial calibration

Vs= Initial volume of the sample

Ws= Initial weight of the sample

%S= Percent Solid

Example:

Sample ID. #2 Compound Name 1,3-DNB

$$\text{Concentration} = \frac{13433\,(20000)}{277.2329\,(4)\,(0.877)\,(1000)}$$

= 280. ug/Kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: ___

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Terphenyls
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-028-SA5C-SB-4.0-5.0MS/MSD (SL-028-SA5C-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	- -	- -	23 (≤20) 21 (≤20)	J (all detects) J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The QAPP reporting limits (RL) were met with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG DE029	o-Terphenyl m-Terphenyl p-Terphenyl	Laboratory reporting limit reported at 3.5 mg/Kg.	Reporting limit should be reported at 0.167 mg/Kg per the QAPP.	None None None	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No terphenyls were detected in any of the samples.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	SL-028-SA5C-SB-4.0-5.0	m-Terphenyl p-Terphenyl	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	o-Terphenyl m-Terphenyl p-Terphenyl	None None None	P	Compound quantitation and CRQLs (*IX)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C41 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: PI

2nd Reviewer: A

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	%RSD
III.	Calibration verification/ICV	A	ICV/CCV ≤20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 1,3
XIII.	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	DUP12-SA5C-QC-120610	11	PBLK113Z6	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337C4 1
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C41
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337C4/

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer:

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	6 + 7	m-Terphenyl	( )	( )	23 (20)	3	J/A det (Q)
		p-Terphenyl	( )	( )	21 (20)	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 25337C1

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer:

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	LAB RL / QA PP RL Finding	Associated Samples	Qualifications
	o-Terphenyl	3.5 mg/kg / 0.167 mg/kg	All	none / P (E) (*1X
	m-terphenyl	↓ / ↓	↓	↓ / ↓
	p-Terphenyl	↓ / ↓	↓	↓ / ↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337C4/

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [signature]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

Level 3

#	Standard ID	Calibration Date	Compound	Reported 16.142 CF (std)	Recalculated 16.142 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/10/10	o-Terphenyl	2.25×10^4	2.25×10^4	2.28×10^4	2.28×10^4	1.7	1.7
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C41
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: F7
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV	12/13/10	o - Terphenyl	32.28	33.45	33.45	3.6	3.6
	R344.34R							
2	R344.45R	12/14/10	↓	↓	34.17	34.17	5.8	5.8
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 53541

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer:

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
n-Triacontane-d62	NS	0.333	0.270369	81	81	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 15 25741
SDG #: see cover

Reviewer: FT
2nd Reviewer: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA   Where   SSC = Spiked sample concentration   SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100   MS = Matrix spike   MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (mg/kg)		Sample Conc. (mg/kg)	Spike Sample Concentration (mg/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
o-Terphenyl	1.67	1.67	ND	1.5	1.8	79	79	98	98	21	21

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C41
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: _____

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
o-Terphenyl	1.67	NA	1.8	NA	105	105	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C4
SDG #: pu series

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs\ or\ Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID.__________ Compound Name __________

Concentration = __________

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: __________

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 6, 2010

LDC Report Date: May 10, 2011

Matrix: Soil

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No alcohols were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP12-SA5C-QC-120610	SL-028-SA5C-SB-4.0-5.0			
Ethanol	570U	130	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE029	DUP12-SA5C-QC-120610 SL-028-SA5C-SB-4.0-5.0	Ethanol	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C43 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FR

2nd Reviewer: CV

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	$\bar{x}$, %RSD ≤ 20, r^2
III.	Calibration verification/ICV	A	ICV / CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 1, 3
XIII.	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	DUP12-SA5C-QC-120610	11	PBLK101343	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337C43
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: C

Method: ✓ GC ______ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C43
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337C43

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer: A

METHOD: ✓ GC __ HPLC

Y N N/A Were field duplicate pairs identified in this SDG?

Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit ≤50	Qualification Parent only / All Samples
	1	3		
Ethanol	5704 ~~4004~~	130	200	J/UJ/A (FD)

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 25337C43
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

3

#	Standard ID	Calibration Date	Compound	Reported CF (8000 std)	Recalculated CF (5000 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/8/10	ethanol	2.98 [illegible]	2.98 ✓	3.32	3.32 ✓	14.6	14.6
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C43
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer:

METHOD: GC / HPLC

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV	12/9/10	ethanol	10000.00	9778.82	9778.82	2.2	2.2
	11:33							
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C43
SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Acetone	W4	2500	2107.85	84	84	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 13 25 / C47

SDG #: see cover

Reviewer: FT

2nd Reviewer: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA   Where   SSC = Spiked sample concentration   SC = Sample concentration
SA = Spike added

RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100   MS = Matrix spike   MSD = Matrix spike duplicate

MS/MSD samples: 6 & 7

Compound	Spike Added (ug/Kg)		Sample Conc. (ug/Kg)	Spike Sample Concentration (ug/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Methanol	2500	2500	ND	2200	2300	90	90	91	91	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c43
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: RO
2nd Reviewer: A

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: WC>

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Methane	2500	NA	2500	NA	102	102	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C43
SDG #: 44 gases

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. # 3 Compound Name Ethane

Concentration = $\frac{778\ (5000)}{3.32\ (10)\ (0.906)\ (1000}$

= 130 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Glycols
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B modified for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No glycols were detected in any of the samples.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C45 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: EZ

2nd Reviewer:

METHOD: GC Glycols (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	%D RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 1,3
XIII.	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	DUP12-SA5C-QC-120610	11	PBLK02342	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337c45
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FR
2nd Reviewer: A

Method: ✓ GC ____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C45
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337C45
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				100.547 CF (std)	100.847 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	ICAL	12/9/10	Ethylene Glycol	2699.137	2699.137	2589.384	2589.384	12.77	12.77
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C45
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	E343.14R	12/9/10	Ethylene Glycol	302.70	265.55	265.55	12.3	12.3
2	E343.26R	12/9/10	↓	201.69	192.48	192.48	4.6	4.6
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25533/C85

SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetramethylene glycol	NS	205	172.2904	84	84	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: A 33/C43
SDG #: see cover

Reviewer: FT
2nd Reviewer: A

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA   Where   SSC = Spiked sample concentration   SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100   MS = Matrix spike   MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (mg/Kg)		Sample Conc. (mg/Kg)	Spike Sample Concentration (mg/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	--	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Ethylene Glycol	199.44	199.44	ND	160	150	78	78	76	76	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C45
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Ethylene glycol	199.4	NA	170	NA	88	88				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337c85
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ___ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Formaldehyde
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

DUP12-SA5C-QC-120610
SL-018-SA5C-SB-4.0-5.0
SL-028-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-4.0-5.0
SL-025-SA5C-SB-9.0-10.0
SL-028-SA5C-SB-4.0-5.0MS
SL-028-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP12-SA5C-QC-120610 and SL-028-SA5C-SB-4.0-5.0 were identified as field duplicates. No formaldehyde was detected in any of the samples.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	DUP12-SA5C-QC-120610 SL-018-SA5C-SB-4.0-5.0 SL-028-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-4.0-5.0 SL-025-SA5C-SB-9.0-10.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C71 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FO

2nd Reviewer:

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II	Initial calibration	A	
III.	Calibration verification/ICV	A	
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 1, 3
XIII.	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	DUP12-SA5C-QC-120610	11	PBLK 11343	21		31	
2	SL-018-SA5C-SB-4.0-5.0	12		22		32	
3	SL-028-SA5C-SB-4.0-5.0	13		23		33	
4	SL-025-SA5C-SB-4.0-5.0	14		24		34	
5	SL-025-SA5C-SB-9.0-10.0	15		25		35	
6	SL-028-SA5C-SB-4.0-5.0MS	16		26		36	
7	SL-028-SA5C-SB-4.0-5.0MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337C1
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FM
2nd Reviewer: 1

Method: ____ GC ✓ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337C1
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓		✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.		✓		
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337C1
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC _____ HPLC ✓

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				2002 CF (std)	2002 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	ICAL	12/10/10	Formaldehyde	6.21×10^{1}	6.21×10^{1}	6.08×10^{1}	6.08×10^{1}	13.0	13.0
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC_____HPLC ✓

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	IF434.20R	12/10/10	Formaldehyde	2002.00	2125.13	2125.13	6.2	6.2
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 53 / C/
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer:

METHOD: ___ GC ✓ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Butyraldehyde	NS	3980	4618.540527	116	116	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25257C1
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ
2nd Reviewer: 1

METHOD: ___ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
formaldehyde	5010	5010	ND	5700	5600	104	104	101	101	3	3

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FO
2nd Reviewer: A

METHOD: ___ GC __✓__ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Formaldehyde	5010	NA	5200	NA	105	105	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337C1
SDG #: all seven

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ___ GC ✓ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration = _____

ND

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 6, 2010
LDC Report Date:	May 12, 2011
Matrix:	Soil
Parameters:	Perchlorate
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE029

Sample Identification

SL-025-SA5C-SB-4.0-5.0

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required by the method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 50.0% for perchlorate.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogate spikes were not required by the method.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE029	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Perchlorate - Data Qualification Summary - SDG DE029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE029	SL-025-SA5C-SB-4.0-5.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE029

No Sample Data Qualified in this SDG

LDC #: 25337C87 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/6/11

SDG #: DE029 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/6/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	r^2
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 15/20 LODV ≤ 50
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	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-025-SA5C-SB-4.0-5.0	11	PBLK19342	21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 05337C87

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

LCMS Perchlorate Method 6852

Method: ~~Semivolatiles (EPA SW 846 Method 8270C)~~

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?			✓	
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Were all percent differences (%D) ~~≤ 25%~~ 15 and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?			✓	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337C87

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

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SDG# see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Method 6850

Parameter: perchlorate

Date	Column	Compound	y	x	
12/10/2010	LCMS	perchlorate	0.03	0.020	
			0.05	0.040	
			0.13	0.100	
			0.25	0.200	
			0.49	0.400	
			1.19	1.000	
			3.01	2.500	

Regression Output:		Regression Output:	Reported	
Constant		0.00649		6.5000E-003
Std Err of Y Est		0.00820		
R Squared		0.99995		0.99999
No. of Observations		7.00000		
Degrees of Freedom		5.00000		
X Coefficient(s)	1.198E+000		0.11980	
Std Err of Coef.	0.003714	0.04		

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VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV	12/10/10	~~Phenol (1st internal standard)~~ Perchlorate	4	3.82	3.82	5	5
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 33708 /

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

6850

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
Perchlorate	100	NA	96	NA	96	96	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

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VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: A

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~ 6850

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. _____, _____:

Conc. = $\frac{(\quad)(\quad)(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)(\quad)}$

= ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

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-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3050B	6010B	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3050B	6020	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3060A	7199	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3546	1625C	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3550B	8015B	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3550B	8015M	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3550B	8082	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3550B	8270C	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	3550B	8270C SIM	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	5035	8015M	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	5035	8260B	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	5035	8260B SIM	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	8330	8330A	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	Gen Prep	9045M	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	300.0	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	314.0	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	7471A	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	8015B	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	8015M	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	8315A	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0	6158224	N	METHOD	9012B	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0DUP	P158224D291230A	DUP	Gen Prep	9045M	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0MSD	P158224M261321	MSD	3546	1625C	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0MSD	P158224M320158A	MSD	3550B	8015M	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0MS	P158224R211655A	MS	5035	8260B	III
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0MS	P158224R261303	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
07-Dec-2010	SL-026-SA5C-SB-4.0-5.0MS	P158224R320133A	MS	3550B	8015M	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3050B	6010B	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3050B	6020	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3060A	7199	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3546	1625C	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3550B	8015B	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3550B	8015M	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3550B	8082	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3550B	8270C	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	3550B	8270C SIM	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	5035	8015M	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	5035	8260B	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	5035	8260B SIM	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	8330	8330A	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	Gen Prep	9045M	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	300.0	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	314.0	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	7471A	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	8015B	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	8015M	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	8315A	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0	6158225	N	METHOD	9012B	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0DU	P158225D221936	DUP	METHOD	7471A	III
07-Dec-2010	SL-026-SA5C-SB-9.0-10.0MS	P158225R221937	MS	METHOD	7471A	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3050B	6010B	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	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
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3060A	7199	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3546	1625C	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3550B	8015B	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3550B	8015M	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3550B	8082	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3550B	8270C	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	3550B	8270C SIM	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	5035	8015M	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	5035	8260B	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	5035	8260B SIM	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	8330	8330A	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	Gen Prep	9045M	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	300.0	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	314.0	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	7471A	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	8015B	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	8015M	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	8315A	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5	6158226	N	METHOD	9012B	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5DUP	P158226D272348B	DUP	METHOD	314.0	III
07-Dec-2010	SL-027-SA5C-SB-2.5-3.5MS	P158226R270013B	MS	METHOD	314.0	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3050B	6010B	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3050B	6020	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3060A	7199	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3546	1625C	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	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
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3550B	8015M	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3550B	8082	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3550B	8270C	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	3550B	8270C SIM	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	5035	8015M	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	5035	8260B	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	5035	8260B SIM	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	8330	8330A	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	Gen Prep	9045M	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	300.0	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	314.0	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	7471A	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	8015B	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	8015M	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	8315A	III
07-Dec-2010	SL-027-SA5C-SB-9.0-10.0	6158227	N	METHOD	9012B	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	3005A	6010B	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	3020A	6020	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	3510C	8082	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	3510C	8270C	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	3510C	8270C SIM	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	5030B	8015M	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	5030B	8260B	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	5030B	8260B SIM	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	Gen Prep	300.0	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	Gen Prep	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Dec-2010	EB13-SA5C-120710	6158233	EB	Gen Prep	7199	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	Gen Prep	9040B	III
07-Dec-2010	EB13-SA5C-120710	6158233	EB	METHOD	7470A	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3050B	6010B	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3050B	6020	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3060A	7199	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3546	1625C	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3550B	8015B	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3550B	8015M	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3550B	8082	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3550B	8270C	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	3550B	8270C SIM	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	5035	8015M	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	5035	8260B	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	5035	8260B SIM	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	8330	8330A	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	Gen Prep	9045M	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	300.0	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	314.0	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	7471A	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	8015B	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	8015M	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	8315A	III
07-Dec-2010	SL-019-SA5C-SB-4.0-5.0	6158228	N	METHOD	9012B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3050B	6010B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	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
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3060A	7199	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3546	1625C	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3550B	8015B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3550B	8015M	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3550B	8082	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3550B	8270C	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	3550B	8270C SIM	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	5035	8015M	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	5035	8260B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	5035	8260B SIM	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	8330	8330A	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	Gen Prep	9045M	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	300.0	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	314.0	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	7471A	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	8015B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	8015M	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	8315A	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5	6158229	N	METHOD	9012B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5DUP	P158229D271433A	DUP	METHOD	300.0	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5DUP	P158229D271557B	DUP	METHOD	9012B	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5MS	P158229R271448A	MS	METHOD	300.0	III
07-Dec-2010	SL-019-SA5C-SB-8.5-9.5MS	P158229R271558B	MS	METHOD	9012B	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3050B	6020	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	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
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3546	1625C	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3550B	8015B	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3550B	8015M	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3550B	8082	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3550B	8270C	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	3550B	8270C SIM	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	5035	8015M	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	5035	8260B	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	5035	8260B SIM	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	8330	8330A	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	Gen Prep	9045M	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	300.0	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	314.0	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	7471A	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	8015B	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	8015M	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	8315A	III
07-Dec-2010	SL-014-SA5C-SB-4.0-5.0	6158230	N	METHOD	9012B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3050B	6020	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3060A	7199	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3546	1625C	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3550B	8015B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3550B	8015M	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3550B	8082	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	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-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	3550B	8270C SIM	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	5035	8015M	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	5035	8260B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	5035	8260B SIM	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	8330	8330A	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	Gen Prep	9045M	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	300.0	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	314.0	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	7471A	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	8015B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	8015M	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	8315A	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0	6158231	N	METHOD	9012B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0DU	P158231D221141	DUP	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0DU	P158231D221214	DUP	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0DU	P158231D221641	DUP	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0MS	P158231R221145	MS	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0MS	P158231R221218	MS	3050B	6010B	III
07-Dec-2010	SL-014-SA5C-SB-9.0-10.0MS	P158231R221645	MS	3050B	6010B	III
07-Dec-2010	TB-120710	6158232	TB	5030B	8015M	III
07-Dec-2010	TB-120710	6158232	TB	5030B	8260B	III
07-Dec-2010	TB-120710	6158232	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: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.0	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: GENCHEM

Method: 314.0 **Matrix:** AQ

Sample ID: EB13-SA5C-120710 *Collected:* 12/7/2010 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
PERCHLORATE	1.6	J	0.70	MDL	2.0	PQL	ug/L	J	Z

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	15.2	J	10.2	MDL	34.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	17.4	J	10.0	MDL	33.4	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.02	J	0.935	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	1120		1.18	MDL	21.0	PQL	mg/Kg	J	Q, E

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3100		18.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	1.73	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.70	J	0.968	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	275		0.609	MDL	10.9	PQL	mg/Kg	J	Q, E
POTASSIUM	2510		19.6	MDL	54.4	PQL	mg/Kg	J	Q
TIN	2.45	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.969	J	0.914	MDL	5.44	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 1:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.08	J	0.953	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 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
PHOSPHORUS	169		0.600	MDL	10.7	PQL	mg/Kg	J	Q, E
POTASSIUM	2450		19.3	MDL	53.5	PQL	mg/Kg	J	Q
SODIUM	99.2	J	39.9	MDL	107	PQL	mg/Kg	J	Z
TIN	2.78	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.899	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON.	2.83	J	0.945	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	118		0.595	MDL	10.6	PQL	mg/Kg	J	Q, E
POTASSIUM	1750		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.24	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.29	J	0.959	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	159		0.603	MDL	10.8	PQL	mg/Kg	J	Q, E
POTASSIUM	2360		19.4	MDL	53.9	PQL	mg/Kg	J	Q
SODIUM	86.5	J	40.2	MDL	108	PQL	mg/Kg	J	Z
TIN	2.42	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.00	J	0.905	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.00	J	0.974	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	135		0.613	MDL	10.9	PQL	mg/Kg	J	Q, E
POTASSIUM	1890		19.7	MDL	54.7	PQL	mg/Kg	J	Q
TIN	2.72	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.35	J	0.919	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.58	J	0.992	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	189		0.624	MDL	11.1	PQL	mg/Kg	J	Q, E
POTASSIUM	2660		20.1	MDL	55.7	PQL	mg/Kg	J	Q
SODIUM	63.5	J	41.6	MDL	111	PQL	mg/Kg	J	Z
TIN	2.65	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.19	J	0.936	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 11:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.986	MDL	5.54	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-027-SA5C-SB-9.0-10.0 **Collected:** 12/7/2010 11:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	137		0.621	MDL	11.1	PQL	mg/Kg	J	Q, E
POTASSIUM	1460		19.9	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.40	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.54	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

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

Sample ID: SL-014-SA5C-SB-4.0-5.0 **Collected:** 12/7/2010 3:29:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0466	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5C-SB-4.0-5.0 **Collected:** 12/7/2010 3:29:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.7		0.115	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-014-SA5C-SB-4.0-5.0 **Collected:** 12/7/2010 3:29:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0637	U	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q
ARSENIC	2.76		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.310		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0747	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	10.7		0.127	MDL	0.424	PQL	mg/Kg	J	Q, A
COBALT	5.78		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	12.2		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, A
LEAD	3.67		0.0110	MDL	0.212	PQL	mg/Kg	J	Q
NICKEL	6.48		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0163	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	35.5		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	53.7		0.594	MDL	3.18	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.114	MDL	0.423	PQL	mg/Kg	J	E, A

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0894	J	0.0634	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	5.14		0.0634	MDL	0.423	PQL	mg/Kg	J	Q
BERYLLIUM	0.676		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	23.0		0.127	MDL	0.423	PQL	mg/Kg	J	Q, A
COBALT	6.44		0.0211	MDL	0.106	PQL	mg/Kg	J	A
COPPER	10.8		0.0697	MDL	0.423	PQL	mg/Kg	J	Q, A
LEAD	8.17		0.0110	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	12.7		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	44.8		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	62.0		0.592	MDL	3.17	PQL	mg/Kg	J	E

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 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	0.104	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 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	116		0.120	MDL	0.445	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 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	0.0743	J	0.0668	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	4.90		0.0668	MDL	0.445	PQL	mg/Kg	J	Q
BERYLLIUM	0.785		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.134	MDL	0.445	PQL	mg/Kg	J	Q, A
COBALT	7.93		0.0223	MDL	0.111	PQL	mg/Kg	J	A
COPPER	9.40		0.0735	MDL	0.445	PQL	mg/Kg	J	Q, A
LEAD	7.35		0.0116	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	13.9		0.111	MDL	0.445	PQL	mg/Kg	J	Q
SILVER	0.0540	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	47.9		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, A
ZINC	51.9		0.624	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.5		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0669	U	0.0669	MDL	0.223	PQL	mg/Kg	UJ	Q
ARSENIC	6.14		0.0669	MDL	0.446	PQL	mg/Kg	J	Q
BERYLLIUM	0.599		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.0559	J	0.0401	MDL	0.111	PQL	mg/Kg	J	Z
CHROMIUM	21.2		0.134	MDL	0.446	PQL	mg/Kg	J	Q, A
COBALT	3.97		0.0223	MDL	0.111	PQL	mg/Kg	J	A
COPPER	8.05		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	6.41		0.0116	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	8.93		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0372	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	40.5		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, A
ZINC	50.7		0.624	MDL	3.34	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.115	MDL	0.427	PQL	mg/Kg	J	E, A

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0792	J	0.0640	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	4.72		0.0640	MDL	0.427	PQL	mg/Kg	J	Q
BERYLLIUM	0.790		0.0171	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.128	MDL	0.427	PQL	mg/Kg	J	Q, A
COBALT	8.86		0.0213	MDL	0.107	PQL	mg/Kg	J	A
COPPER	13.2		0.0704	MDL	0.427	PQL	mg/Kg	J	Q, A
LEAD	6.85		0.0111	MDL	0.213	PQL	mg/Kg	J	Q
NICKEL	15.5		0.107	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0315	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	43.6		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, A
ZINC	54.3		0.597	MDL	3.20	PQL	mg/Kg	J	E

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0622	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.1		0.119	MDL	0.442	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory:** LL

EDD Filename: PrepDE030_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0663	U	0.0663	MDL	0.221	PQL	mg/Kg	UJ	Q
ARSENIC	4.58		0.0663	MDL	0.442	PQL	mg/Kg	J	Q
BERYLLIUM	0.699		0.0177	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.0477	J	0.0398	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	23.2		0.133	MDL	0.442	PQL	mg/Kg	J	Q, A
COBALT	4.38		0.0221	MDL	0.110	PQL	mg/Kg	J	A
COPPER	8.40		0.0729	MDL	0.442	PQL	mg/Kg	J	Q, A
LEAD	5.81		0.0115	MDL	0.221	PQL	mg/Kg	J	Q
NICKEL	11.5		0.110	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0354	J	0.0133	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	43.1		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	45.3		0.619	MDL	3.31	PQL	mg/Kg	J	E

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	121		0.116	MDL	0.429	PQL	mg/Kg	J	E, A

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0643	U	0.0643	MDL	0.214	PQL	mg/Kg	UJ	Q
ARSENIC	3.54		0.0643	MDL	0.429	PQL	mg/Kg	J	Q
BERYLLIUM	0.634		0.0172	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	17.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q, A
COBALT	5.85		0.0214	MDL	0.107	PQL	mg/Kg	J	A
COPPER	10.0		0.0707	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	5.12		0.0111	MDL	0.214	PQL	mg/Kg	J	Q
NICKEL	11.7		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0441	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	34.2		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, A
ZINC	42.9		0.600	MDL	3.22	PQL	mg/Kg	J	E

Sample ID: SL-027-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 11:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.122	MDL	0.452	PQL	mg/Kg	J	E, A

Sample ID: SL-027-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 11:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0678	J	0.0678	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	3.21		0.0678	MDL	0.452	PQL	mg/Kg	J	Q
BERYLLIUM	0.581		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.136	MDL	0.452	PQL	mg/Kg	J	Q, A
COBALT	4.52		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	8.18		0.0746	MDL	0.452	PQL	mg/Kg	J	Q, A
LEAD	5.43		0.0118	MDL	0.226	PQL	mg/Kg	J	Q
NICKEL	11.6		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0564	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	36.4		0.0249	MDL	0.113	PQL	mg/Kg	J	Q, A
ZINC	49.1		0.633	MDL	3.39	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.92	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0239	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0042	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 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
MERCURY	0.0044	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0053	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M Matrix: SO

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *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)	0.96	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.51	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 1:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.55	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	1.2	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: PrepDE030_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	S
ETHYLENE GLYCOL	13	U	13	MDL	14	PQL	mg/Kg	UJ	S
Propylene glycol	5.6	U	5.6	MDL	14	PQL	mg/Kg	UJ	S

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *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)	0.51	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.53	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.83	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-027-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 11:25:00 *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)	0.63	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *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	1.4	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory:** LL

EDD Filename: PrepDE030_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.98	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	0.88	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.64	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB13-SA5C-120710 *Collected:* 12/7/2010 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
2,4-DINITROPHENOL	10	U	10	MDL	30	PQL	ug/L	UJ	L, E
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L, E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	R	L

Method Category: SVOA

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

Sample ID: EB13-SA5C-120710 *Collected:* 12/7/2010 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	0.33	J	0.052	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.14	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Dimethylphthalate	0.052	U	0.052	MDL	1.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.61	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.071	J	0.052	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.033	J	0.010	MDL	0.052	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.024	J	0.010	MDL	0.052	PQL	ug/L	J	Z, L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *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	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.45	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	320	J	110	MDL	550	PQL	ug/Kg	J	Z
METHANOL	260	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	300	J	110	MDL	550	PQL	ug/Kg	J	Z
METHANOL	220	J	110	MDL	550	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory:** LL

EDD Filename: PrepDE030_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 1:55:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	260	J	110	MDL	560	PQL	ug/Kg	J	Z
METHANOL	190	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	270	J	110	MDL	560	PQL	ug/Kg	J	Z
METHANOL	200	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	130	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	150	J	110	MDL	570	PQL	ug/Kg	J	Z
METHANOL	130	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	J	110	MDL	560	PQL	ug/Kg	J	Z
METHANOL	290	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 11:25:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	250	J	110	MDL	570	PQL	ug/Kg	J	Z
METHANOL	160	J	110	MDL	570	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-014-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 3:29:00 *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	0.45	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-014-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 3:35:00 *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	0.47	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-019-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 1:55:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.41	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-019-SA5C-SB-8.5-9.5 *Collected:* 12/7/2010 2:04:00 *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.9	J	6.7	MDL	8.0	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.57	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-026-SA5C-SB-4.0-5.0 *Collected:* 12/7/2010 9:30:00 *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	0.62	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-026-SA5C-SB-9.0-10.0 *Collected:* 12/7/2010 9:35:00 *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	0.48	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-027-SA5C-SB-2.5-3.5 *Collected:* 12/7/2010 11:23:00 *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	0.51	J	0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: PrepDE030_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: **SL-027-SA5C-SB-9.0-10.0** ***Collected:*** **12/7/2010 11:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.9**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
METHYLENE CHLORIDE	0.49	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: PrepDE030_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: PrepDE030_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: PrepDE030_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE030

Method Blank Outlier Report

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34308BB221131	12/14/2010 11:31:00 AM	LITHIUM	0.50 mg/Kg	SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-SB-9.0-10.0
P34308BB221623	12/12/2010 4:23:00 PM	ALUMINUM CALCIUM PHOSPHORUS TIN	6.22 mg/Kg 7.06 mg/Kg 0.819 mg/Kg 1.73 mg/Kg	SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-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-014-SA5C-SB-4.0-5.0(RES)	TIN	1.73 mg/Kg	1.73U mg/Kg
SL-014-SA5C-SB-9.0-10.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-019-SA5C-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-019-SA5C-SB-8.5-9.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-026-SA5C-SB-4.0-5.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-026-SA5C-SB-9.0-10.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-027-SA5C-SB-2.5-3.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-027-SA5C-SB-9.0-10.0(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34326AB221128A	12/13/2010 11:28:00 AM	COPPER LEAD	0.284 mg/Kg 0.0130 mg/Kg	SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB11B211147A	12/9/2010 11:47:00 AM	BENZENE METHYLENE CHLORIDE TOLUENE	0.10 ug/Kg 0.59 ug/Kg 0.12 ug/Kg	SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-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-014-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.45 ug/Kg	3.9U ug/Kg
SL-014-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.47 ug/Kg	4.4U ug/Kg
SL-019-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.41 ug/Kg	3.7U ug/Kg
SL-019-SA5C-SB-8.5-9.5(RES)	METHYLENE CHLORIDE	0.57 ug/Kg	4.0U ug/Kg
SL-026-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.62 ug/Kg	4.2U ug/Kg
SL-026-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.48 ug/Kg	3.8U ug/Kg
SL-027-SA5C-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	0.51 ug/Kg	3.7U ug/Kg
SL-027-SA5C-SB-2.5-3.5(RES)	TOLUENE	0.09 ug/Kg	3.7U ug/Kg
SL-027-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.49 ug/Kg	4.1U ug/Kg
SL-027-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.08 ug/Kg	4.1U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE34B261012	12/9/2010 10:12:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	0.16 ug/L 0.052 ug/L	EB13-SA5C-120710

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB13-SA5C-120710(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.33 ug/L	1.0U ug/L
EB13-SA5C-120710(RES)	Di-n-octylphthalate	0.071 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: DE030_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-014-SA5C-SB-9.0-10.0MS **SL-014-SA5C-SB-9.0-10.0MSD** (SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	3178 395 3285 418 139 255	2676 382 6801 633 197 435	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	J (all detects) Al, Ca, Fe, Mg, Ti No Qual. >4x
SL-014-SA5C-SB-9.0-10.0MS **SL-014-SA5C-SB-9.0-10.0MSD** (SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-SB-9.0-10.0)	MANGANESE	-34	17	75.00-125.00	-	MANGANESE	No Qual, >4x
SL-014-SA5C-SB-9.0-10.0MSD (SL-014-SA5C-SB-4.0-5.0 SL-014-SA5C-SB-9.0-10.0 SL-019-SA5C-SB-4.0-5.0 SL-019-SA5C-SB-8.5-9.5 SL-026-SA5C-SB-4.0-5.0 SL-026-SA5C-SB-9.0-10.0 SL-027-SA5C-SB-2.5-3.5 SL-027-SA5C-SB-9.0-10.0)	PHOSPHORUS	-	220	75.00-125.00	23 (20.00)	PHOSPHORUS	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: DE030_v1 eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-026-SA5C-SB-9.0-10.0DUP (SL-014-SA5C-SB-4.0-5.0 SL -014-SA5C-SB-9.0-10.0 SL -019-SA5C-SB-4.0-5.0 SL -019-SA5C-SB-8.5-9.5 SL -026-SA5C-SB-4.0-5.0 SL -026-SA5C-SB-9.0-10.0 SL -027-SA5C-SB-2.5-3.5 SL -027-SA5C-SB-9.0-10.0)	MERCURY	38	20.00	No Qual OK by difference

Method: 314.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-027-SA5C-SB-2.5-3.5DUP (SL-014-SA5C-SB-4.0-5.0 SL -014-SA5C-SB-9.0-10.0 SL -019-SA5C-SB-4.0-5.0 SL -019-SA5C-SB-8.5-9.5 SL -027-SA5C-SB-2.5-3.5 SL -027-SA5C-SB-9.0-10.0)	PERCHLORATE	200	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-014-SA5C-SB-9.0-10.0DUP (SL-014-SA5C-SB-4.0-5.0 SL -014-SA5C-SB-9.0-10.0 SL -019-SA5C-SB-4.0-5.0 SL -019-SA5C-SB-8.5-9.5 SL -026-SA5C-SB-4.0-5.0 SL -026-SA5C-SB-9.0-10.0 SL -027-SA5C-SB-2.5-3.5 SL -027-SA5C-SB-9.0-10.0)	Zirconium	42	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE030 Laboratory: LL

EDD Filename: PrepDE030_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
P2WELCSQ261046 P2WELCSY261119 (EB13-SA5C-120710)	Dimethylphthalate N-NITROSODIMETHYLAMINE	68 63	- 58	70.00-130.00 70.00-130.00	- -	Dimethylphthalate N-NITROSODIMETHYLAMINE	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
P5WCLCSQ260103 P5WCLCSY260129 (EB13-SA5C-120710)	BENZOIC ACID	0	-	10.00-69.00	200 (30.00)	BENZOIC ACID	J(all detects) R(all non-detects)
P5WCLCSQ260103 P5WCLCSY260129 (EB13-SA5C-120710)	2,4-DINITROPHENOL 4-CHLOROANILINE ANILINE	57 - -	- 39 43	64.00-120.00 42.00-124.00 49.00-101.00	41 (30.00) 39 (30.00) -	2,4-DINITROPHENOL 4-CHLOROANILINE ANILINE	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
P34326AQ221131A (SL-014-SA5C-SB-4.0-5.0 SL -014-SA5C-SB-9.0-10.0 SL -019-SA5C-SB-4.0-5.0 SL -019-SA5C-SB-8.5-9.5 SL -026-SA5C-SB-4.0-5.0 SL -026-SA5C-SB-9.0-10.0 SL -027-SA5C-SB-2.5-3.5 SL -027-SA5C-SB-9.0-10.0)	ANTIMONY	62	-	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
LCS1B11Q211344A (SL-014-SA5C-SB-4.0-5.0 SL -014-SA5C-SB-9.0-10.0 SL -019-SA5C-SB-4.0-5.0 SL -019-SA5C-SB-8.5-9.5 SL -026-SA5C-SB-4.0-5.0 SL -026-SA5C-SB-9.0-10.0 SL -027-SA5C-SB-2.5-3.5 SL -027-SA5C-SB-9.0-10.0)	Chlorotrifluoroethylene	134	-	22.00-131.00	-	Chlorotrifluoroethylene	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-019-SA5C-SB-8.5-9.5	TETRAMETHYLENE GLYCOL	27	29.00-137.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 314.0

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB13-SA5C-120710	PERCHLORATE	J	1.6	2.0	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB13-SA5C-120710	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.33	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.14	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.61	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.071	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.033	0.052	PQL	ug/L	
	N-NITROSODIMETHYLAMINE	J	0.024	0.052	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.0	1.6	PQL	mg/Kg	J (all detects)
SL-019-SA5C-SB-8.5-9.5	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-026-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-027-SA5C-SB-2.5-3.5	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5C-SB-9.0-10.0	PERCHLORATE	J	15.2	34.1	PQL	ug/Kg	J (all detects)
SL-027-SA5C-SB-2.5-3.5	PERCHLORATE	J	17.4	33.4	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	BORON	J	3.02	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	1.73	10.5	PQL	mg/Kg	
SL-014-SA5C-SB-9.0-10.0	BORON	J	4.70	5.44	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.9	PQL	mg/Kg	
	Zirconium	J	0.969	5.44	PQL	mg/Kg	
SL-019-SA5C-SB-4.0-5.0	BORON	J	5.08	5.35	PQL	mg/Kg	J (all detects)
	SODIUM	J	99.2	107	PQL	mg/Kg	
	TIN	J	2.78	10.7	PQL	mg/Kg	
	Zirconium	J	1.95	5.35	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA5C-SB-8.5-9.5	BORON	J	2.83	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.6	PQL	mg/Kg	
SL-026-SA5C-SB-4.0-5.0	BORON	J	3.29	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.5	108	PQL	mg/Kg	
	TIN	J	2.42	10.8	PQL	mg/Kg	
	Zirconium	J	2.00	5.39	PQL	mg/Kg	
SL-026-SA5C-SB-9.0-10.0	BORON	J	3.00	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.72	10.9	PQL	mg/Kg	
	Zirconium	J	2.35	5.47	PQL	mg/Kg	
SL-027-SA5C-SB-2.5-3.5	BORON	J	3.58	5.57	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.5	111	PQL	mg/Kg	
	TIN	J	2.65	11.1	PQL	mg/Kg	
	Zirconium	J	2.19	5.57	PQL	mg/Kg	
SL-027-SA5C-SB-9.0-10.0	BORON	J	2.91	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	11.1	PQL	mg/Kg	
	Zirconium	J	1.54	5.54	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	CADMIUM	J	0.0747	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0466	0.424	PQL	mg/Kg	
	SILVER	J	0.0163	0.106	PQL	mg/Kg	
SL-014-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0894	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.423	PQL	mg/Kg	
	SILVER	J	0.0402	0.106	PQL	mg/Kg	
SL-019-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0743	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.104	0.445	PQL	mg/Kg	
	SILVER	J	0.0540	0.111	PQL	mg/Kg	
SL-019-SA5C-SB-8.5-9.5	CADMIUM	J	0.0559	0.111	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0372	0.111	PQL	mg/Kg	
SL-026-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0792	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.139	0.427	PQL	mg/Kg	
	SILVER	J	0.0315	0.107	PQL	mg/Kg	
SL-026-SA5C-SB-9.0-10.0	CADMIUM	J	0.0477	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0622	0.442	PQL	mg/Kg	
	SILVER	J	0.0354	0.110	PQL	mg/Kg	
SL-027-SA5C-SB-2.5-3.5	SELENIUM	J	0.129	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0441	0.107	PQL	mg/Kg	
SL-027-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0678	0.226	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0564	0.113	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.92	1.1	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	MERCURY	J	0.0239	0.105	PQL	mg/Kg	J (all detects)
SL-014-SA5C-SB-9.0-10.0	MERCURY	J	0.0042	0.106	PQL	mg/Kg	J (all detects)
SL-019-SA5C-SB-4.0-5.0	MERCURY	J	0.0044	0.109	PQL	mg/Kg	J (all detects)
SL-026-SA5C-SB-9.0-10.0	MERCURY	J	0.0053	0.106	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	ETHANOL METHANOL	J J	320 260	550 550	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-014-SA5C-SB-9.0-10.0	ETHANOL METHANOL	J J	300 220	550 550	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-019-SA5C-SB-4.0-5.0	ETHANOL METHANOL	J J	260 190	560 560	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-019-SA5C-SB-8.5-9.5	ETHANOL METHANOL	J J	270 200	560 560	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-026-SA5C-SB-4.0-5.0	ETHANOL	J	130	550	PQL	ug/Kg	J (all detects)
SL-026-SA5C-SB-9.0-10.0	ETHANOL METHANOL	J J	150 130	570 570	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-027-SA5C-SB-2.5-3.5	ETHANOL METHANOL	J J	200 290	560 560	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-027-SA5C-SB-9.0-10.0	ETHANOL METHANOL	J J	250 160	570 570	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.96	1.3	PQL	mg/Kg	J (all detects)
SL-014-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.51	1.3	PQL	mg/Kg	J (all detects)
SL-019-SA5C-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.55 1.2	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-019-SA5C-SB-8.5-9.5	EFH (C30-C40)	J	0.51	1.3	PQL	mg/Kg	J (all detects)
SL-026-SA5C-SB-4.0-5.0	EFH (C21-C30)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-026-SA5C-SB-9.0-10.0	EFH (C30-C40)	J	0.83	1.4	PQL	mg/Kg	J (all detects)
SL-027-SA5C-SB-9.0-10.0	EFH (C30-C40)	J	0.63	1.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE030 **Laboratory: LL**

EDD Filename: DE030_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	AROCLOR 1260	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.7	3.6	PQL	ug/Kg	
SL-014-SA5C-SB-9.0-10.0	AROCLOR 1248	J	0.98	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1254	J	0.88	1.9	PQL	ug/Kg	
	AROCLOR 1260	J	0.64	1.9	PQL	ug/Kg	
	Aroclor 5460	J	2.0	3.6	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.45	3.9	PQL	ug/Kg	J (all detects)
SL-014-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.47	4.4	PQL	ug/Kg	J (all detects)
SL-019-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.41	3.7	PQL	ug/Kg	J (all detects)
SL-019-SA5C-SB-8.5-9.5	ACETONE	J	7.9	8.0	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.57	4.0	PQL	ug/Kg	
SL-026-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.62	4.2	PQL	ug/Kg	J (all detects)
SL-026-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.48	3.8	PQL	ug/Kg	J (all detects)
SL-027-SA5C-SB-2.5-3.5	METHYLENE CHLORIDE	J	0.51	3.7	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	3.7	PQL	ug/Kg	
SL-027-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.49	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.08	4.1	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.91	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
SL-014-SA5C-SB-9.0-10.0	ANTHRACENE	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.92	1.8	PQL	ug/Kg	
SL-026-SA5C-SB-9.0-10.0	NAPHTHALENE	J	0.78	1.9	PQL	ug/Kg	J (all detects)

LDC #: 25337D4
SDG #: DE030
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 5-5-11
Page: 1 of 1
Reviewer: CR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	ICB/CCB hits – No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (MS from DE029) (Al, Ca, Fe, Mg, Mn, Ti >4x)
VII.	Duplicate Sample Analysis	N	DUP ↓ (Hg, Zr <5xRL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	(MS from DE029) (Ba, Cr, Co, Cu, V)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	ND	EB=9

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

Validated Samples: Soil/Water

1	SL-026-SA5C-SB-4.0-5.0	11	(#2) MSD Hg	21		31	
2	SL-026-SA5C-SB-9.0-10.0	12	↓ DUP ↓	22		32	
3	SL-027-SA5C-SB-2.5-3.5	13	(#8) MS ICP	23		33	
4	SL-027-SA5C-SB-9.0-10.0	14	MSD	24		34	
5	SL-019-SA5C-SB-4.0-5.0	15	↓ DUP ↓	25		35	
6	SL-019-SA5C-SB-8.5-9.5	16		26		36	
7	SL-014-SA5C-SB-4.0-5.0	17		27		37	
8	SL-014-SA5C-SB-9.0-10.0	18		28		38	
9	EB13-SA5C-120710 W	19		29		39	
10	(#2) MS Hg	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY FROM SDG: DE029
FORM 9
SERIAL DILUTIONS
SDG No.: DE030
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: *57194BKG Serial Dilution Lab Sample ID: *57194L
Batch ID(s): P34326A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.3304	B	1.5000	U	100		MS
Arsenic	75	20.2100		21.7000		7		MS
Barium	137	421.7000		467.9000		11	E	MS
Beryllium	9	2.6150		2.9365		12		MS
Cadmium	111	0.4996	B	0.9000	U	100		MS
Chromium	52	87.1900		104.6000		20	E	MS
Cobalt	59	22.4900		29.1400		30	E	MS
Copper	63	35.7700		47.6850		33	E	MS
Lead	208	26.8400		29.6350		10		MS
Molybdenum	98	2.5590		3.2525		27		MS
Nickel	60	46.6600		54.1000		16		MS
Selenium	78	0.6824	B	1.0000	U	100		MS
Silver	107	0.1500	B	0.3000	U	100		MS
Thallium	203	1.2010		1.1505	B	4		MS
Vanadium	51	164.7000		200.8000		22	E	MS
Zinc	66	267.8000		310.0000		16		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: DE030 3825
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

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-Dec-2010	EB14-SA5C-120810	6162870	EB	3510C	8015B	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	3510C	8015M	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	3520C	1625C	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	5030B	8015M	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	8330	8330A	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	Gen Prep	300.0	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	Gen Prep	8015B	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	Gen Prep	8015M	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	METHOD	8151A	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	METHOD	8315A	III
08-Dec-2010	EB14-SA5C-120810	6162870	EB	METHOD	9012B	III
08-Dec-2010	EB14-SA5C-120810MSD	P162870M322030A	MSD	Gen Prep	8015M	III
08-Dec-2010	EB14-SA5C-120810MS	P162870R322014A	MS	Gen Prep	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3050B	6010B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3050B	6020	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3060A	7199	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3546	1625C	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8015B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8082	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8270C	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	3550B	8270C SIM	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	5035	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	5035	8260B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	5035	8260B SIM	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	Gen Prep	9045M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	300.0	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	314.0	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	7471A	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	8015B	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	8015M	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	8315A	III
08-Dec-2010	SL-020-SA5C-SB-4.0-5.0	6162857	N	METHOD	9012B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3050B	6010B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3050B	6020	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3060A	7199	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3546	1625C	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8015B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8015M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8082	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8270C	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	3550B	8270C SIM	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	5035	8015M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	5035	8260B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	5035	8260B SIM	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	8330	8330A	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	Gen Prep	9045M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	300.0	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	314.0	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	6850	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	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
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	8015B	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	8015M	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	8315A	III
08-Dec-2010	SL-020-SA5C-SB-7.5-8.5	6162858	N	METHOD	9012B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3050B	6010B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3050B	6020	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3060A	7199	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3546	1625C	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8015B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8015M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8082	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8270C	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	3550B	8270C SIM	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	5035	8015M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	5035	8260B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	5035	8260B SIM	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	8330	8330A	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	Gen Prep	9045M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	300.0	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	314.0	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	6850	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	7471A	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	8015B	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	8015M	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	8315A	III
08-Dec-2010	SL-021-SA5C-SB-4.0-5.0	6162862	N	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3050B	6010B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3050B	6020	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3060A	7199	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3546	1625C	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8015B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8015M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8082	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8270C	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	3550B	8270C SIM	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	5035	8015M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	5035	8260B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	5035	8260B SIM	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	8330	8330A	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	Gen Prep	9045M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	300.0	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	314.0	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	6850	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	7471A	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	8015B	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	8015M	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	8315A	III
08-Dec-2010	SL-021-SA5C-SB-9.0-10.0	6162863	N	METHOD	9012B	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3050B	6010B	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3050B	6020	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3060A	7199	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	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
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8082	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8151A	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8270C	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	3550B	8270C SIM	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	Gen Prep	9045M	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	METHOD	300.0	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	METHOD	314.0	III
08-Dec-2010	SL-034-SA5B-SS-0.0-0.5	6162872	N	METHOD	7471A	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3050B	6010B	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3050B	6020	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3060A	7199	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8081A	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8082	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8151A	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8270C	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	3550B	8270C SIM	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	Gen Prep	9045M	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	METHOD	300.0	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	METHOD	314.0	III
08-Dec-2010	SL-036-SA5B-SS-0.0-0.5	6162874	N	METHOD	7471A	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3050B	6010B	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3050B	6020	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3060A	7199	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8081A	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8082	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8151A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8270C	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	3550B	8270C SIM	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	Gen Prep	9045M	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	METHOD	300.0	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	METHOD	314.0	III
08-Dec-2010	SL-035-SA5B-SS-0.0-0.5	6162873	N	METHOD	7471A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3050B	6010B	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3050B	6020	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3060A	7199	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8081A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8082	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8151A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8270C	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	3550B	8270C SIM	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	Gen Prep	9045M	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	METHOD	300.0	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	METHOD	314.0	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5	6162871	N	METHOD	7471A	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5DUP	P162871D271729B	DUP	METHOD	300.0	III
08-Dec-2010	SL-029-SA5B-SS-0.0-0.5MS	P162871R271743B	MS	METHOD	300.0	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3050B	6010B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3050B	6020	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3060A	7199	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3546	1625C	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8015B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8082	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8270C	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	3550B	8270C SIM	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	5035	8015M	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	5035	8260B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	5035	8260B SIM	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	8330	8330A	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	Gen Prep	9045M	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	300.0	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	314.0	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	7471A	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	8015B	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	8015M	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	8315A	III
08-Dec-2010	SL-015-SA5C-SB-4.0-5.0	6162855	N	METHOD	9012B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3050B	6010B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3050B	6020	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3060A	7199	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3546	1625C	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8015B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8015M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8082	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8270C	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	3550B	8270C SIM	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	5035	8015M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	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
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	5035	8260B SIM	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	8330	8330A	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	Gen Prep	9045M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	300.0	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	314.0	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	7471A	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	8015B	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	8015M	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	8315A	III
08-Dec-2010	SL-015-SA5C-SB-9.0-10.0	6162856	N	METHOD	9012B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3060A	7199	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3546	1625C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8081A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8151A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8270C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	3550B	8270C SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	5035	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	5035	8260B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	5035	8260B SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	8330	8330A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review *N = 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-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	300.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	314.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	6850	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	8315A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5	6162864	N	METHOD	9012B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3060A	7199	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3546	1625C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8081A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8151A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8270C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	3550B	8270C SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	8330	8330A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	300.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	314.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	6850	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	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
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	8315A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	6162865	MS	METHOD	9012B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3546	1625C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8081A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8151A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8270C	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	3550B	8270C SIM	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	8330	8330A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	6850	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	8015B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	6162866	MSD	METHOD	8315A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	3050B	6010B	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	3050B	6020	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	3060A	7199	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	Gen Prep	9045M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	300.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	314.0	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	DUP	METHOD	7471A	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5DUP	6162867	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
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	P162864M241109A	MSD	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MSD	P162864M321119A	MSD	3550B	8015M	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	P162864R241051A	MS	3550B	8082	III
08-Dec-2010	SL-017-SA5B-SS-0.0-0.5MS	P162864R321054A	MS	3550B	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3050B	6010B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3050B	6020	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3060A	7199	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3546	1625C	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8015B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8082	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8270C	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	3550B	8270C SIM	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	5035	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	5035	8260B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	5035	8260B SIM	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	8330	8330A	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	Gen Prep	9045M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	300.0	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	314.0	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	6850	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	7471A	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	8015B	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	8015M	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	8315A	III
08-Dec-2010	SL-016-SA5C-SB-4.0-5.0	6162860	N	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3050B	6010B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3050B	6020	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3060A	7199	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3546	1625C	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8015B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8015M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8082	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8270C	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	3550B	8270C SIM	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	5035	8015M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	5035	8260B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	5035	8260B SIM	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	8330	8330A	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	Gen Prep	9045M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	300.0	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	314.0	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	6850	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	7471A	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	8015B	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	8015M	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	8315A	III
08-Dec-2010	SL-016-SA5C-SB-9.0-10.0	6162861	N	METHOD	9012B	III
08-Dec-2010	TB-120810	6162859	TB	5030B	8015M	III
08-Dec-2010	TB-120810	6162859	TB	5030B	8260B	III
08-Dec-2010	TB-120810	6162859	TB	5030B	8260B SIM	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3050B	6020	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3060A	7199	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3546	1625C	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8015B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8015M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8082	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8270C	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	3550B	8270C SIM	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	5035	8015M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	5035	8260B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	5035	8260B SIM	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	8330	8330A	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	Gen Prep	9045M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	300.0	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	7471A	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	8015M	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	8315A	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0	6162875	N	METHOD	9012B	III
09-Dec-2010	SL-022-SA5C-SB-4.0-5.0DUP	P162875D291045A	DUP	Gen Prep	9045M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3050B	6010B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3050B	6020	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3060A	7199	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3546	1625C	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8015M	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8082	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8270C	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	3550B	8270C SIM	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	5035	8015M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	5035	8260B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	5035	8260B SIM	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	8330	8330A	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	Gen Prep	9045M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	300.0	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	7471A	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	8015M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	8315A	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10	6162876	N	METHOD	9012B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MSD	P162876M321610A	MSD	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MSD	P162876M322209A	MSD	METHOD	8015M	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MS	P162876R321555A	MS	METHOD	8015B	III
09-Dec-2010	SL-022-SA5C-SB-9.0-10MS	P162876R322153A	MS	METHOD	8015M	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3005A	6010B	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3020A	6020	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8081A	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8082	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8270C	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	3510C	8270C SIM	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	300.0	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	7199	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	Gen Prep	9040B	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	METHOD	7470A	III
09-Dec-2010	EB01-SA5B-120910	6162868	EB	METHOD	8151A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3050B	6010B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3050B	6020	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3060A	7199	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3546	1625C	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8015B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8015M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8082	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8270C	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	5035	8015M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	5035	8260B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	5035	8260B SIM	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	8330	8330A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	Gen Prep	9045M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	300.0	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	7471A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	8015B	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	8015M	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	8315A	III
09-Dec-2010	SL-012-SA5C-SB-4.0-5.0	6162877	N	METHOD	9012B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3050B	6010B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	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
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3060A	7199	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3546	1625C	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8015B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8015M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8082	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8270C	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	3550B	8270C SIM	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	5035	8015M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	5035	8260B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	5035	8260B SIM	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	8330	8330A	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	Gen Prep	9045M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	300.0	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	7471A	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	8015B	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	8015M	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	8315A	III
09-Dec-2010	SL-012-SA5C-SB-9.0-10.0	6162878	N	METHOD	9012B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3050B	6010B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3050B	6020	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3060A	7199	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3546	1625C	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8015B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8015M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8082	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	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
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	3550B	8270C SIM	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	5035	8015M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	5035	8260B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	5035	8260B SIM	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	8330	8330A	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	Gen Prep	9045M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	300.0	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	7471A	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	8015B	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	8015M	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	8315A	III
09-Dec-2010	SL-013-SA5C-SB-4.0-5.0	6162879	N	METHOD	9012B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3050B	6010B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3050B	6020	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3060A	7199	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3546	1625C	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8015B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8015M	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8082	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8270C	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	3550B	8270C SIM	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	5035	8015M	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	5035	8260B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	5035	8260B SIM	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	8330	8330A	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	300.0	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	7471A	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	8015B	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	8015M	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	8315A	III
09-Dec-2010	SL-013-SA5C-SB-9.0-10.0	6162880	N	METHOD	9012B	III
09-Dec-2010	TB-120910	6162869	TB	5030B	8015M	III
09-Dec-2010	TB-120910	6162869	TB	5030B	8260B	III
09-Dec-2010	TB-120910	6162869	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: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: EM

Method: 9040B **Matrix:** AQ

Sample ID: EB01-SA5B-120910 *Collected:* 12/9/2010 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
PH	5.6		0.010	MDL	0.010	PQL	pH unit	J	H

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.0		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.98	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.5	J	0.98	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *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		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.2	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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
Nitrate-NO3	1.5	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-020-SA5C-SB-7.5-8.5 ***Collected:*** 12/8/2010 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
Nitrate-NO3	1.5	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0 ***Collected:*** 12/9/2010 9:56:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-022-SA5C-SB-9.0-10 ***Collected:*** 12/9/2010 10:02:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	37.0		1.8	MDL	2.3	PQL	mg/Kg	J	Q, E

Sample ID: SL-029-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 2:27:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-034-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 1:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-035-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 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	3.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-036-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 1:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	12.2	J	9.9	MDL	33.0	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	30.9	J	9.8	MDL	32.8	PQL	ug/Kg	U	B

Method Category: GENCHEM

Method: 9012B **Matrix: AQ**

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 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
CYANIDE	0.0050	U	0.0050	MDL	0.010	PQL	mg/L	UJ	H

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.63	J	0.942	MDL	5.29	PQL	mg/Kg	J	Z
CALCIUM	5480		6.49	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	3040		19.0	MDL	52.9	PQL	mg/Kg	J	Q
TIN	1.79	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.889	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.90	J	1.07	MDL	5.99	PQL	mg/Kg	J	Z
CALCIUM	5110		7.35	MDL	24.0	PQL	mg/Kg	J	E
POTASSIUM	2440		21.6	MDL	59.9	PQL	mg/Kg	J	Q
TIN	2.13	J	1.20	MDL	12.0	PQL	mg/Kg	U	B
Zirconium	4.32	J	1.01	MDL	5.99	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.86	J	0.938	MDL	5.27	PQL	mg/Kg	J	Z
CALCIUM	2910		6.46	MDL	21.1	PQL	mg/Kg	J	E
POTASSIUM	2250		19.0	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.68	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.48	J	0.886	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.929	MDL	5.22	PQL	mg/Kg	J	Z
CALCIUM	3070		6.40	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	1940		18.8	MDL	52.2	PQL	mg/Kg	J	Q
TIN	1.78	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	0.977	J	0.877	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 2:33:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.53	J	0.946	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	5110		6.51	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2990		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.12	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.56	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 2:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.75	J	0.949	MDL	5.33	PQL	mg/Kg	J	Z
CALCIUM	3440		6.54	MDL	21.3	PQL	mg/Kg	J	E
POTASSIUM	2480		19.2	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.01	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.933	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-016-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 4:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.34	J	0.966	MDL	5.43	PQL	mg/Kg	J	Z
CALCIUM	5730		6.65	MDL	21.7	PQL	mg/Kg	J	E
POTASSIUM	2810		19.5	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.23	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.58	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.932	MDL	5.24	PQL	mg/Kg	J	Z
CALCIUM	4230		6.42	MDL	21.0	PQL	mg/Kg	J	E
POTASSIUM	2560		18.9	MDL	52.4	PQL	mg/Kg	J	Q
TIN	2.34	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.78	J	0.880	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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
BORON	4.05	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	4940		6.50	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2870		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	105	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.17	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.61	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.16	J	0.980	MDL	5.51	PQL	mg/Kg	J	Z
CALCIUM	6430		6.75	MDL	22.0	PQL	mg/Kg	J	E
POTASSIUM	2820		19.8	MDL	55.1	PQL	mg/Kg	J	Q
SODIUM	100	J	41.1	MDL	110	PQL	mg/Kg	J	Z
TIN	2.12	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.94	J	0.925	MDL	5.51	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.73	J	0.956	MDL	5.37	PQL	mg/Kg	J	Z
CALCIUM	2010		6.58	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	1680		19.3	MDL	53.7	PQL	mg/Kg	J	Q
TIN	2.05	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.52	J	0.902	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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
BORON	2.16	J	0.923	MDL	5.19	PQL	mg/Kg	J	Z
CALCIUM	5430		6.36	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2480		18.7	MDL	51.9	PQL	mg/Kg	J	Q
TIN	1.68	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.05	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.17	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	7450		6.50	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2770		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.44	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.71	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.80	J	0.958	MDL	5.38	PQL	mg/Kg	J	Z
CALCIUM	2110		6.60	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2220		19.4	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.00	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-022-SA5C-SB-9.0-10 ***Collected:*** 12/9/2010 10:02:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.02	J	0.992	MDL	5.57	PQL	mg/Kg	J	Z
CALCIUM	2410		6.83	MDL	22.3	PQL	mg/Kg	J	E
POTASSIUM	1800		20.1	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.49	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.42	J	0.936	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 2:27:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.84	J	0.945	MDL	5.31	PQL	mg/Kg	J	Z
CALCIUM	4400		6.51	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2600		19.1	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.12	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.75	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-034-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 1:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.87	J	0.926	MDL	5.20	PQL	mg/Kg	J	Z
CALCIUM	3900		6.38	MDL	20.8	PQL	mg/Kg	J	E
POTASSIUM	3030		18.7	MDL	52.0	PQL	mg/Kg	J	Q
SODIUM	95.1	J	38.8	MDL	104	PQL	mg/Kg	J	Z
TIN	1.87	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5 ***Collected:*** 12/8/2010 2:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.94	J	0.967	MDL	5.43	PQL	mg/Kg	J	Z
CALCIUM	4030		6.66	MDL	21.7	PQL	mg/Kg	J	E
POTASSIUM	2240		19.6	MDL	54.3	PQL	mg/Kg	J	Q
SODIUM	105	J	40.5	MDL	109	PQL	mg/Kg	J	Z
TIN	1.63	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.03	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.38	J	0.965	MDL	5.42	PQL	mg/Kg	J	Z
CALCIUM	3500		6.65	MDL	21.7	PQL	mg/Kg	J	E
POTASSIUM	2300		19.5	MDL	54.2	PQL	mg/Kg	J	Q
SODIUM	83.6	J	40.5	MDL	108	PQL	mg/Kg	J	Z
TIN	1.96	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.09	J	0.911	MDL	5.42	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** AQ

Sample ID: EB01-SA5B-120910 *Collected:* 12/9/2010 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
SILVER	0.00010	J	0.000080	MDL	0.00050	PQL	mg/L	U	B

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0635	MDL	0.212	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.30		0.0635	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.626		0.0169	MDL	0.106	PQL	mg/Kg	J	E
CADMIUM	0.104	J	0.0381	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.2		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E, A
COBALT	8.00		0.0212	MDL	0.106	PQL	mg/Kg	J	E, A
COPPER	12.5		0.0698	MDL	0.423	PQL	mg/Kg	J	E, A
LEAD	8.70		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.106	MDL	0.423	PQL	mg/Kg	J	Q, A
SILVER	0.0279	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.417		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	51.7		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	80.4		0.593	MDL	3.17	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.393		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.114	MDL	0.423	PQL	mg/Kg	J	E, E

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0733	MDL	0.244	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	6.79		0.0733	MDL	0.489	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.442		0.0196	MDL	0.122	PQL	mg/Kg	J	E
CADMIUM	0.195		0.0440	MDL	0.122	PQL	mg/Kg	J	Q
CHROMIUM	37.3		0.147	MDL	0.489	PQL	mg/Kg	J	Q, E, A
COBALT	7.59		0.0244	MDL	0.122	PQL	mg/Kg	J	E, A
COPPER	10.3		0.0807	MDL	0.489	PQL	mg/Kg	J	E, A
LEAD	5.41		0.0127	MDL	0.244	PQL	mg/Kg	J	Q, E
NICKEL	19.3		0.122	MDL	0.489	PQL	mg/Kg	J	Q, A
SILVER	0.0168	J	0.0147	MDL	0.122	PQL	mg/Kg	J	Z, Q
THALLIUM	0.254		0.0367	MDL	0.122	PQL	mg/Kg	J	Q
VANADIUM	45.5		0.0269	MDL	0.122	PQL	mg/Kg	J	Q, E
ZINC	55.6		0.685	MDL	3.67	PQL	mg/Kg	J	E, A

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0888	J	0.0489	MDL	0.489	PQL	mg/Kg	J	Z, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.87		0.0611	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.4		0.132	MDL	0.489	PQL	mg/Kg	J	E, E

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0651	MDL	0.217	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	8.17		0.0651	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.707		0.0174	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.170		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	22.3		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E, A
COBALT	7.27		0.0217	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	10.4		0.0717	MDL	0.434	PQL	mg/Kg	J	E, A
LEAD	8.53		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.109	MDL	0.434	PQL	mg/Kg	J	Q, A
SILVER	0.0413	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	45.0		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	71.3		0.608	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.824		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.117	MDL	0.434	PQL	mg/Kg	J	E, E

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0658	U	0.0658	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	6.13		0.0658	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.567		0.0175	MDL	0.110	PQL	mg/Kg	J	E
CADMIUM	0.120		0.0395	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	18.6		0.132	MDL	0.439	PQL	mg/Kg	J	Q, E, A
COBALT	6.05		0.0219	MDL	0.110	PQL	mg/Kg	J	E, A
COPPER	9.51		0.0724	MDL	0.439	PQL	mg/Kg	J	E, A
LEAD	6.65		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	10.9		0.110	MDL	0.439	PQL	mg/Kg	J	Q, A
SILVER	0.0312	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.333		0.0329	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	39.2		0.0241	MDL	0.110	PQL	mg/Kg	J	Q, E
ZINC	61.7		0.614	MDL	3.29	PQL	mg/Kg	J	E, A

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.429		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.118	MDL	0.439	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-015-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 2:33:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0688	J	0.0656	MDL	0.219	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	6.65		0.0656	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.843		0.0175	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.153		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	34.0		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	9.37		0.0219	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	11.4		0.0722	MDL	0.438	PQL	mg/Kg	J	E, A
LEAD	9.41		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.109	MDL	0.438	PQL	mg/Kg	J	Q, A
SILVER	0.0235	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.345		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	68.8		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	76.6		0.613	MDL	3.28	PQL	mg/Kg	J	E, A

Sample ID: SL-015-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 2:33:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.256	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-015-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 2:33:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.450		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 2:33:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.118	MDL	0.438	PQL	mg/Kg	J	E, E

Sample ID: SL-015-SA5C-SB-9.0-10.0 ***Collected:*** 12/8/2010 2:40:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0640	U	0.0640	MDL	0.213	PQL	mg/Kg	R	Q
ARSENIC	5.33		0.0640	MDL	0.427	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.546		0.0171	MDL	0.107	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-015-SA5C-SB-9.0-10.0 **Collected:** 12/8/2010 2:40:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.137		0.0384	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	18.1		0.128	MDL	0.427	PQL	mg/Kg	J	Q, E, A
COBALT	6.10		0.0213	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	8.33		0.0704	MDL	0.427	PQL	mg/Kg	J	E, A
LEAD	7.09		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	10.5		0.107	MDL	0.427	PQL	mg/Kg	J	Q, A
SILVER	0.0229	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.366		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	36.4		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	78.1		0.597	MDL	3.20	PQL	mg/Kg	J	E, A

Sample ID: SL-015-SA5C-SB-9.0-10.0 **Collected:** 12/8/2010 2:40:00 **Analysis Type:** REA7 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-015-SA5C-SB-9.0-10.0 **Collected:** 12/8/2010 2:40:00 **Analysis Type:** REA8 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.515		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-015-SA5C-SB-9.0-10.0 **Collected:** 12/8/2010 2:40:00 **Analysis Type:** REA9 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.115	MDL	0.427	PQL	mg/Kg	J	E, E

Sample ID: SL-016-SA5C-SB-4.0-5.0 **Collected:** 12/8/2010 4:10:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0633	U	0.0633	MDL	0.211	PQL	mg/Kg	R	Q
ARSENIC	4.44		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.510		0.0169	MDL	0.105	PQL	mg/Kg	J	E
CADMIUM	0.0751	J	0.0380	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.8		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E, A
COBALT	5.61		0.0211	MDL	0.105	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-016-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 4:10:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.21		0.0696	MDL	0.422	PQL	mg/Kg	J	E, A
LEAD	5.60		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	9.36		0.105	MDL	0.422	PQL	mg/Kg	J	Q, A
SILVER	0.0261	J	0.0127	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.269		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	36.5		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	59.2		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-016-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 4:10:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-016-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 4:10:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.456		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5C-SB-4.0-5.0 ***Collected:*** 12/8/2010 4:10:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.0		0.114	MDL	0.422	PQL	mg/Kg	J	E, E

Sample ID: SL-016-SA5C-SB-9.0-10.0 ***Collected:*** 12/8/2010 4:23:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0952	J	0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	7.33		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.577		0.0173	MDL	0.108	PQL	mg/Kg	J	E
CADMIUM	0.198		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E, A
COBALT	6.83		0.0216	MDL	0.108	PQL	mg/Kg	J	E, A
COPPER	10.9		0.0712	MDL	0.431	PQL	mg/Kg	J	E, A
LEAD	7.77		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.108	MDL	0.431	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0334	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.364		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	44.2		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	84.4		0.604	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.170	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.863		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.116	MDL	0.431	PQL	mg/Kg	J	E, E

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0649	MDL	0.216	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.99		0.0649	MDL	0.433	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.662		0.0173	MDL	0.108	PQL	mg/Kg	J	E
CADMIUM	0.117		0.0390	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	24.2		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, A
COBALT	6.51		0.0216	MDL	0.108	PQL	mg/Kg	J	E, A
COPPER	11.0		0.0714	MDL	0.433	PQL	mg/Kg	J	E, A
LEAD	7.20		0.0113	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	13.2		0.108	MDL	0.433	PQL	mg/Kg	J	Q, A
SILVER	0.0385	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	41.6		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	86.8		0.606	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0433	MDL	0.433	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.24		0.0541	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.117	MDL	0.433	PQL	mg/Kg	J	E, E

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0642	U	0.0642	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	4.89		0.0642	MDL	0.428	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.575		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.138		0.0385	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	21.4		0.128	MDL	0.428	PQL	mg/Kg	J	Q, E, A
COBALT	6.66		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	10.1		0.0706	MDL	0.428	PQL	mg/Kg	J	E, A
LEAD	7.74		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	12.3		0.107	MDL	0.428	PQL	mg/Kg	J	Q, A
SILVER	0.0350	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.325		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	42.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	59.6		0.599	MDL	3.21	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0983	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.471		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.116	MDL	0.428	PQL	mg/Kg	J	E, E

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0882	J	0.0626	MDL	0.209	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.87		0.0626	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.644		0.0167	MDL	0.104	PQL	mg/Kg	J	E
CADMIUM	0.247		0.0376	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	18.3		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	10.5		0.0209	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	6.92		0.0688	MDL	0.417	PQL	mg/Kg	J	E, A
LEAD	4.60		0.0108	MDL	0.209	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.104	MDL	0.417	PQL	mg/Kg	J	Q, A
SILVER	0.0607	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	34.6		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	51.0		0.584	MDL	3.13	PQL	mg/Kg	J	E, A

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0615	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z, Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.437		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	184		0.113	MDL	0.417	PQL	mg/Kg	J	E, E

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 11:55:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0622	U	0.0622	MDL	0.207	PQL	mg/Kg	R	Q
ARSENIC	5.77		0.0622	MDL	0.415	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.484		0.0166	MDL	0.104	PQL	mg/Kg	J	E
CADMIUM	0.142		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.124	MDL	0.415	PQL	mg/Kg	J	Q, E, A
COBALT	6.95		0.0207	MDL	0.104	PQL	mg/Kg	J	E, A
COPPER	12.8		0.0685	MDL	0.415	PQL	mg/Kg	J	E, A
LEAD	6.77		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	11.0		0.104	MDL	0.415	PQL	mg/Kg	J	Q, A
SILVER	0.0297	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.340		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	44.4		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	80.9		0.581	MDL	3.11	PQL	mg/Kg	J	E, A

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 11:55:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0415	MDL	0.415	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 11:55:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.555		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 11:55:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.112	MDL	0.415	PQL	mg/Kg	J	E, E

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0986	J	0.0643	MDL	0.214	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.61		0.0643	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.631		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.194		0.0386	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	22.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E, A
COBALT	6.48		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	10.0		0.0707	MDL	0.429	PQL	mg/Kg	J	E, A
LEAD	7.51		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0462	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.276		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	41.1		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	70.7		0.600	MDL	3.21	PQL	mg/Kg	J	E, A

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.570		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.116	MDL	0.429	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0652	U	0.0652	MDL	0.217	PQL	mg/Kg	R	Q, Q, E
ARSENIC	4.17		0.0652	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.614		0.0174	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.141		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	18.1		0.130	MDL	0.435	PQL	mg/Kg	J	Q, E, A
COBALT	7.13		0.0217	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	8.85		0.0717	MDL	0.435	PQL	mg/Kg	J	E, A
LEAD	5.49		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	13.1		0.109	MDL	0.435	PQL	mg/Kg	J	Q, A
SILVER	0.0448	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	35.3		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	50.4		0.609	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0902	J	0.0435	MDL	0.435	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.549		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.117	MDL	0.435	PQL	mg/Kg	J	E, E

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0675	U	0.0675	MDL	0.225	PQL	mg/Kg	R	Q
ARSENIC	6.05		0.0675	MDL	0.450	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.820		0.0180	MDL	0.113	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.150		0.0405	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	27.4		0.135	MDL	0.450	PQL	mg/Kg	J	Q, E, A
COBALT	9.00		0.0225	MDL	0.113	PQL	mg/Kg	J	E, A
COPPER	9.02		0.0743	MDL	0.450	PQL	mg/Kg	J	E, A
LEAD	7.23		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	16.9		0.113	MDL	0.450	PQL	mg/Kg	J	Q, A
SILVER	0.0425	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.380		0.0338	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	52.5		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, E
ZINC	62.6		0.630	MDL	3.38	PQL	mg/Kg	J	E, A

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.09		0.0563	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.122	MDL	0.450	PQL	mg/Kg	J	E, E

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.112	J	0.0625	MDL	0.208	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	10.0		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.429		0.0167	MDL	0.104	PQL	mg/Kg	J	E
CADMIUM	0.134		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	26.1		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	5.77		0.0208	MDL	0.104	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.4		0.0688	MDL	0.417	PQL	mg/Kg	J	E, A
LEAD	6.49		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	13.3		0.104	MDL	0.417	PQL	mg/Kg	J	Q, A
SILVER	0.0278	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.250		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	40.7		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	55.7		0.584	MDL	3.13	PQL	mg/Kg	J	E, A

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.891		0.0417	MDL	0.417	PQL	mg/Kg	J	Q, E

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.84		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.5		0.113	MDL	0.417	PQL	mg/Kg	J	E, E

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.138	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.04		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.508		0.0170	MDL	0.106	PQL	mg/Kg	J	E
CHROMIUM	23.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	6.55		0.0212	MDL	0.106	PQL	mg/Kg	J	E, A
COPPER	10.7		0.0700	MDL	0.424	PQL	mg/Kg	J	E, A
LEAD	7.21		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	13.7		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
SILVER	0.0315	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.314		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	38.9		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	72.8		0.594	MDL	3.18	PQL	mg/Kg	J	E, A

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.177		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.229	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.10		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.115	MDL	0.424	PQL	mg/Kg	J	E, E

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0787	J	0.0640	MDL	0.213	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.94		0.0640	MDL	0.426	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.456		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.164		0.0384	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	34.0		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, A
COBALT	7.16		0.0213	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	10.8		0.0704	MDL	0.426	PQL	mg/Kg	J	E, A
LEAD	5.89		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	17.7		0.107	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0195	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.262		0.0320	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	44.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	59.3		0.597	MDL	3.20	PQL	mg/Kg	J	E, A

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:00:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.83		0.0533	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.115	MDL	0.426	PQL	mg/Kg	J	E, E

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0978	J	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q, Q, E, B
ARSENIC	5.16		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.501		0.0169	MDL	0.105	PQL	mg/Kg	J	E
CADMIUM	0.163		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	21.7		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	6.39		0.0211	MDL	0.105	PQL	mg/Kg	J	E, A
COPPER	9.76		0.0695	MDL	0.421	PQL	mg/Kg	J	E, A
LEAD	6.36		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.105	MDL	0.421	PQL	mg/Kg	J	Q, A
SILVER	0.0308	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.315		0.0316	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.5		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	71.2		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.114	MDL	0.421	PQL	mg/Kg	J	E, E

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-015-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 2:33:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0048	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0072	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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	0.0073	J	0.0029	MDL	0.0998	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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	0.0070	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0041	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** AQ

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 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
N-NITROSODIMETHYLAMINE	1.57		0.549	MDL	1.10	PQL	ng/L	UJ	L, E, B

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	26.8	J	20.4	MDL	40.7	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 2:33:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.8	J	18.4	MDL	36.8	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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
N-NITROSODIMETHYLAMINE	31.3	J	18.1	MDL	36.3	PQL	ng/Kg	J	Z

Sample ID: SL-016-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 4:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.3	J	18.3	MDL	36.5	PQL	ng/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	21.8	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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
N-NITROSODIMETHYLAMINE	22.9	J	17.8	MDL	35.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	10	U	10	MDL	100	PQL	mg/L	UJ	Q

Sample ID: TB-120810 *Collected:* 12/8/2010 4:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	20	U	20	MDL	50	PQL	ug/L	UJ	S

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

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *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)	0.48	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 4:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.53	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.8	J	2.2	MDL	6.6	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* REA2 *Dilution:* 1

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

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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 (C15-C20)	0.48	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.63	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.66	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.75	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	Q

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *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)	0.48	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.071	J	0.066	MDL	0.18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.13	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, L
MIREX	0.10	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z

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

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *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 1260	0.75	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.1	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	0.81	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *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
AROCLOR 1260	0.76	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *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	0.79	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.56	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.68	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.65	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.79	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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
AROCLOR 1254	0.87	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.79	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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
AROCLOR 1248	1.6	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	0.78	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.64	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.58	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.51	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8151A **Matrix:** AQ

Sample ID: EB01-SA5B-120910 *Collected:* 12/9/2010 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
DINOSEB	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.90	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.57	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.88	U	0.88	MDL	2.7	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB01-SA5B-120910 *Collected:* 12/9/2010 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
2,6-DINITROTOLUENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
2-NITROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L
2-NITROPHENOL	1	U	1	MDL	5	PQL	ug/L	UJ	L
3,3'-DICHLOROBENZIDINE	2	U	2	MDL	5	PQL	ug/L	UJ	L
4-NITROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
CARBAZOLE	1	U	1	MDL	5	PQL	ug/L	UJ	L
DIBENZOFURAN	1	U	1	MDL	5	PQL	ug/L	UJ	L

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

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *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-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	20	U	20	MDL	200	PQL	ug/Kg	UJ	L

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory:** LL

EDD Filename: PrepDE033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-015-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 2:33:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 4:10:00 *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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: EB01-SA5B-120910 *Collected:* 12/9/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	0.22	J	0.051	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.077	J	0.051	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.090	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.26	J	0.051	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.075	J	0.051	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.032	J	0.010	MDL	0.051	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L

Method Category: SVOA

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

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.96	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.76	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.83	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.76	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.84	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *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	1.1	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.3	MDL	22	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	16	J	7.3	MDL	22	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.82	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *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	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	15	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 2:33:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.88	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.78	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.85	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	32		6.6	MDL	20	PQL	ug/Kg	U	B
Butylbenzylphthalate	8.8	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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
BENZO(G,H,I)PERYLENE	0.75	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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
BENZO(A)ANTHRACENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.87	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.7	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.7	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 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
BENZO(A)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.85	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 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
ACENAPHTHYLENE	0.63	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.7	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	19	J	6.6	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-029-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 2:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.94	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.6	MDL	20	PQL	ug/Kg	U	B
PHENANTHRENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.88	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-035-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 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
BENZO(B)FLUORANTHENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.90	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-036-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.93	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	6.6	MDL	20	PQL	ug/Kg	U	B
Butylbenzylphthalate	7.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix:** AQ

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 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
FORMALDEHYDE	12	J	10	MDL	50	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** AQ

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 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
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
1,3-DINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,4,6-TRINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8330A **Matrix:** AQ

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 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-DIAMINO-6-NITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,4-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2,6-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2-AMINO-4,6-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
2-NITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
3-NITROTOLUENE	0.40	U	0.40	MDL	1.2	PQL	ug/L	UJ	S
4-AMINO-2,6-DINITROTOLUENE	0.30	U	0.30	MDL	0.60	PQL	ug/L	UJ	S
4-NITROTOLUENE	0.60	U	0.60	MDL	1.2	PQL	ug/L	UJ	S
HMX	0.65	U	0.65	MDL	2.0	PQL	ug/L	UJ	S
NITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
Nitroglycerin	5.2	U	5.2	MDL	15	PQL	ug/L	UJ	S
PETN	6.0	U	6.0	MDL	18	PQL	ug/L	UJ	S
RDX	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	S
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	S

Method Category: VOA

Method: 8015B **Matrix:** AQ

Sample ID: EB14-SA5C-120810 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	520	J	200	MDL	1000	PQL	ug/L	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	310	J	110	MDL	560	PQL	ug/Kg	J	Z
METHANOL	130	J	110	MDL	560	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	330	J	120	MDL	610	PQL	ug/Kg	J	Z
METHANOL	140	J	120	MDL	610	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	260	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	260	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-012-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:05:00 *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	1.1	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-012-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:14:00 *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	2.3	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-013-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 1:44:00 *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	0.49	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-013-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 1:52:00 *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	0.80	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-015-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 2:33:00 *Analysis Type:* RES *Dilution:* 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.44	J	0.11	MDL	3.5	PQL	ug/Kg	J	Z
TOLUENE	0.15	J	0.07	MDL	3.5	PQL	ug/Kg	U	B

Sample ID: SL-015-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 2:40:00 *Analysis Type:* RES *Dilution:* 1.03

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.2	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-016-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 4:10:00 *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.15	J	0.11	MDL	3.6	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	3.8		0.21	MDL	3.6	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.07	MDL	3.6	PQL	ug/Kg	U	B

Sample ID: SL-016-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 4:23:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.0	J	1.2	MDL	7.8	PQL	ug/Kg	J	Z
CHLOROFORM	0.16	J	0.12	MDL	3.9	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	5.5		0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-017-SA5B-SS-0.0-0.5 *Collected:* 12/8/2010 3:30:00 *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	0.59	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-020-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 9:55:00 *Analysis Type:* RES *Dilution:* 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.6	J	0.21	MDL	3.6	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.07	MDL	3.6	PQL	ug/Kg	U	B

Sample ID: SL-020-SA5C-SB-7.5-8.5 *Collected:* 12/8/2010 10:00:00 *Analysis Type:* RES *Dilution:* 0.77

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.72	J	0.20	MDL	3.4	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.07	MDL	3.4	PQL	ug/Kg	U	B

Sample ID: SL-021-SA5C-SB-4.0-5.0 *Collected:* 12/8/2010 11:55:00 *Analysis Type:* RES *Dilution:* 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.11	J	0.11	MDL	3.5	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	4.5		0.21	MDL	3.5	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.07	MDL	3.5	PQL	ug/Kg	U	B

Sample ID: SL-021-SA5C-SB-9.0-10.0 *Collected:* 12/8/2010 12:00:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.9	J	0.23	MDL	3.8	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-022-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 9:56:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.68	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-022-SA5C-SB-9.0-10 *Collected:* 12/9/2010 10:02:00 *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	1.5	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE033

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE033
EDD Filename: PrepDE033_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 9012B **Preparation Method: 3550B**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB14-SA5C-120810 (RES)	Sampling To Analysis	19.00	14.00	DAYS	J(all detects) UJ(all non-detects)

Method: 9040B **Preparation Method: 3550B**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB01-SA5B-120910 (RES)	Sampling To Analysis	154.00	48.00	HOURS	J(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: DE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA34B261603	12/21/2010 4:03:00 PM	N-NITROSODIMETHYLAMINE	0.696 ng/L	EB14-SA5C-120810

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB14-SA5C-120810(RES)	N-NITROSODIMETHYLAMINE	1.57 ng/L	1.57U ng/L

Method: 314.0
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
B0356B271414A	12/27/2010 2:14:00 PM	PERCHLORATE	14.6 ug/Kg	SL-017-SA5B-SS-0.0-0.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-029-SA5B-SS-0.0-0.5(RES)	PERCHLORATE	30.9 ug/Kg	30.9U ug/Kg

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34908BB220421	12/16/2010 4:21:00 AM	PHOSPHORUS TIN	0.649 mg/Kg 1.42 mg/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5C-SB-4.0-5.0(REA2)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-012-SA5C-SB-9.0-10.0(REA2)	TIN	2.13 mg/Kg	2.13U mg/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: DE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-013-SA5C-SB-4.0-5.0(REA2)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-013-SA5C-SB-9.0-10.0(REA2)	TIN	1.78 mg/Kg	1.78U mg/Kg
SL-015-SA5C-SB-4.0-5.0(REA2)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-015-SA5C-SB-9.0-10.0(REA2)	TIN	2.01 mg/Kg	2.01U mg/Kg
SL-016-SA5C-SB-4.0-5.0(REA2)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-016-SA5C-SB-9.0-10.0(REA2)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-017-SA5B-SS-0.0-0.5(REA2)	TIN	2.17 mg/Kg	2.17U mg/Kg
SL-020-SA5C-SB-4.0-5.0(REA2)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-020-SA5C-SB-7.5-8.5(REA2)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-021-SA5C-SB-4.0-5.0(REA2)	TIN	1.68 mg/Kg	1.68U mg/Kg
SL-021-SA5C-SB-9.0-10.0(REA2)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-022-SA5C-SB-4.0-5.0(REA2)	TIN	2.00 mg/Kg	2.00U mg/Kg
SL-022-SA5C-SB-9.0-10(REA2)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-029-SA5B-SS-0.0-0.5(REA2)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-034-SA5B-SS-0.0-0.5(REA2)	TIN	1.87 mg/Kg	1.87U mg/Kg
SL-035-SA5B-SS-0.0-0.5(REA2)	TIN	1.63 mg/Kg	1.63U mg/Kg
SL-036-SA5B-SS-0.0-0.5(REA2)	TIN	1.96 mg/Kg	1.96U mg/Kg

Method: 6020
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34750CB220020A	12/15/2010 12:20:00 AM	ZINC	0.0051 mg/L	EB01-SA5B-120910

Method Blank Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34926BB221455A	12/17/2010 2:55:00 PM	COPPER	0.334 mg/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB15B210928A	12/14/2010 9:28:00 AM	METHYLENE CHLORIDE TOLUENE	1.0 ug/Kg 0.11 ug/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.0U ug/Kg
SL-012-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	4.0U ug/Kg
SL-012-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.3 ug/Kg	4.5U ug/Kg
SL-012-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.12 ug/Kg	4.5U ug/Kg
SL-013-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.49 ug/Kg	3.8U ug/Kg
SL-013-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.80 ug/Kg	3.7U ug/Kg
SL-015-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	3.5U ug/Kg
SL-015-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.5U ug/Kg
SL-015-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.17 ug/Kg	4.5U ug/Kg
SL-016-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.8 ug/Kg	3.8U ug/Kg
SL-016-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	3.6U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_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-016-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	5.5 ug/Kg	5.5U ug/Kg
SL-016-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.14 ug/Kg	3.9U ug/Kg
SL-017-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.59 ug/Kg	4.0U ug/Kg
SL-017-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.08 ug/Kg	4.0U ug/Kg
SL-020-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.6 ug/Kg	3.6U ug/Kg
SL-020-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	3.6U ug/Kg
SL-020-SA5C-SB-7.5-8.5(RES)	METHYLENE CHLORIDE	0.72 ug/Kg	3.4U ug/Kg
SL-020-SA5C-SB-7.5-8.5(RES)	TOLUENE	0.13 ug/Kg	3.4U ug/Kg
SL-021-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.5 ug/Kg	4.5U ug/Kg
SL-021-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	3.5U ug/Kg
SL-021-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.9 ug/Kg	3.8U ug/Kg
SL-021-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.14 ug/Kg	3.8U ug/Kg
SL-022-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.68 ug/Kg	4.4U ug/Kg
SL-022-SA5C-SB-9.0-10(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	3.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI34B260739	12/15/2010 7:39:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.086 ug/L 0.074 ug/L 0.16 ug/L 0.076 ug/L	EB01-SA5B-120910

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB01-SA5B-120910(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.22 ug/L	1.0U ug/L
EB01-SA5B-120910(RES)	Butylbenzylphthalate	0.077 ug/L	1.0U ug/L
EB01-SA5B-120910(RES)	Di-n-butylphthalate	0.26 ug/L	1.0U ug/L
EB01-SA5B-120910(RES)	Di-n-octylphthalate	0.075 ug/L	1.0U ug/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: DE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLF34B261204	12/20/2010 12:04:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	6.5 ug/Kg	SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5C-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	22U ug/Kg
SL-016-SA5C-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	32 ug/Kg	32U ug/Kg
SL-022-SA5C-SB-9.0-10(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	16 ug/Kg	21U ug/Kg
SL-029-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.2 ug/Kg	20U ug/Kg
SL-036-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	20U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: DE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB14-SA5C-120810MS EB14-SA5C-120810MSD (EB14-SA5C-120810)	ETHYLENE GLYCOL	85	80	89.00-125.00	-	ETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5C-SB-9.0-10MSD (SL-022-SA5C-SB-9.0-10)	METHANOL	-	-	45.00-136.00	25 (20.00)	METHANOL	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-022-SA5C-SB-9.0-10MS SL-022-SA5C-SB-9.0-10MSD (SL-022-SA5C-SB-9.0-10)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	18 57 50	27 62 52	59.00-109.00 63.00-107.00 63.00-107.00	40 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 -121 -222 -644 0	0 -2 895 1920 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- 85 (20.00) 148 (20.00) 143 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, No sample analysis associated

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	DICAMBA	124	136	33.00-120.00	-	DICAMBA	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-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	-37 224	-208 -351	49.00-123.00 49.00-123.00	35 (20.00) 45 (20.00)	EFH (C21-C30) EFH (C30-C40)	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_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-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM	127 128 - - 127 - -	149 152 127 129 139 144 149	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	- - - - - - -	CADMIUM CHROMIUM LEAD NICKEL SILVER THALLIUM VANADIUM	J(all detects)
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	ANTIMONY ZINC	42 -154	21 -45	75.00-125.00 75.00-125.00	52 (20.00) -	ANTIMONY ZINC	J(all detects) R(all non-detects) Zn No Qual, >4x
SL-017-SA5B-SS-0.0-0.5MS (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	ARSENIC	65	-	75.00-125.00	-	ARSENIC	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_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-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	SELENIUM	-	135	75.00-125.00	37 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	MOLYBDENUM	-	135	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-017-SA5B-SS-0.0-0.5MS **SL-017-SA5B-SS-0.0-0.5MSD** (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	BARIUM	-19	464	75.00-125.00	38 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_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-017-SA5B-SS-0.0-0.5MS **SL-017-SA5B-SS-0.0-0.5MSD** (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	ALUMINUM	735	1377	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-017-SA5B-SS-0.0-0.5MS **SL-017-SA5B-SS-0.0-0.5MSD** (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	CALCIUM IRON MAGNESIUM MANGANESE	-122 -1091 -53 29	283 2293 288 66	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	33 (20.00) - - -	CALCIUM IRON MAGNESIUM MANGANESE	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-017-SA5B-SS-0.0-0.5MS (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	PHOSPHORUS POTASSIUM	40 71	- -	75.00-125.00 75.00-125.00	- -	PHOSPHORUS POTASSIUM	J(all detects) UJ(all non-detects) P No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_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-017-SA5B-SS-0.0-0.5MSD (SL-017-SA5B-SS-0.0-0.5)	Di-n-octylphthalate	-	202	40.00-192.00	-	Di-n-octylphthalate	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5B-SS-0.0-0.5MS SL-017-SA5B-SS-0.0-0.5MSD (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	TITANIUM	327	294	75.00-125.00	-	TITANIUM	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-029-SA5B-SS-0.0-0.5MS (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	FLUORIDE	68	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP (SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0)	FLUORIDE	28	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	BORON	28	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP	ANTIMONY	50	20.00	
(SL-012-SA5C-SB-4.0-5.0	ARSENIC	32	20.00	
SL-012-SA5C-SB-9.0-10.0	BARIUM	26	20.00	
SL-013-SA5C-SB-4.0-5.0	BERYLLIUM	0.23	0.22 mg/Kg	
SL-013-SA5C-SB-9.0-10.0	CHROMIUM	26	20.00	
SL-015-SA5C-SB-4.0-5.0	COBALT	24	20.00	
SL-015-SA5C-SB-9.0-10.0	COPPER	28	20.00	
SL-016-SA5C-SB-4.0-5.0	LEAD	25	20.00	
SL-016-SA5C-SB-9.0-10.0	SILVER	58	20.00	
SL-017-SA5B-SS-0.0-0.5	THALLIUM	30	20.00	J(all detects)
SL-020-SA5C-SB-4.0-5.0	VANADIUM	29	20.00	UJ(all non-detects)
SL-020-SA5C-SB-7.5-8.5	ZINC	40	20.00	
SL-021-SA5C-SB-4.0-5.0				Sb, Ag, Tl No Qual
SL-021-SA5C-SB-9.0-10.0				OK by difference
SL-022-SA5C-SB-4.0-5.0				
SL-022-SA5C-SB-9.0-10				
SL-029-SA5B-SS-0.0-0.5				
SL-034-SA5B-SS-0.0-0.5				
SL-035-SA5B-SS-0.0-0.5				
SL-036-SA5B-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP	HEXAVALENT CHROMIUM	200	20.00	
(SL-012-SA5C-SB-4.0-5.0				
SL-012-SA5C-SB-9.0-10.0				
SL-013-SA5C-SB-4.0-5.0				
SL-013-SA5C-SB-9.0-10.0				
SL-015-SA5C-SB-4.0-5.0				
SL-015-SA5C-SB-9.0-10.0				
SL-016-SA5C-SB-4.0-5.0				
SL-016-SA5C-SB-9.0-10.0				
SL-017-SA5B-SS-0.0-0.5				No Qual
SL-020-SA5C-SB-4.0-5.0				OK by difference
SL-020-SA5C-SB-7.5-8.5				
SL-021-SA5C-SB-4.0-5.0				
SL-021-SA5C-SB-9.0-10.0				
SL-022-SA5C-SB-4.0-5.0				
SL-022-SA5C-SB-9.0-10				
SL-029-SA5B-SS-0.0-0.5				
SL-034-SA5B-SS-0.0-0.5				
SL-035-SA5B-SS-0.0-0.5				
SL-036-SA5B-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: DE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-017-SA5B-SS-0.0-0.5DUP (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -015-SA5C-SB-4.0-5.0 SL -015-SA5C-SB-9.0-10.0 SL -016-SA5C-SB-4.0-5.0 SL -016-SA5C-SB-9.0-10.0 SL -017-SA5B-SS-0.0-0.5 SL -020-SA5C-SB-4.0-5.0 SL -020-SA5C-SB-7.5-8.5 SL -021-SA5C-SB-4.0-5.0 SL -021-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	MERCURY	48	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-029-SA5B-SS-0.0-0.5DUP (SL-012-SA5C-SB-4.0-5.0 SL -012-SA5C-SB-9.0-10.0 SL -013-SA5C-SB-4.0-5.0 SL -013-SA5C-SB-9.0-10.0 SL -022-SA5C-SB-4.0-5.0 SL -022-SA5C-SB-9.0-10 SL -029-SA5B-SS-0.0-0.5 SL -034-SA5B-SS-0.0-0.5 SL -035-SA5B-SS-0.0-0.5 SL -036-SA5B-SS-0.0-0.5)	FLUORIDE	2.9	2.2 mg/Kg	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: PrepDE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03489AY241833A (EB01-SA5B-120910)	DINOSEB	-	-	32.00-91.00	42 (30.00)	DINOSEB	J (all detects) UJ (all non-detects)

Method: 1625C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WALCSY261637 (EB14-SA5C-120810)	N-NITROSODIMETHYLAMINE	-	60	70.00-130.00	47 (30.00)	N-NITROSODIMETHYLAMINE	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
P7WELCSQ260519 P7WELCSY260545 (EB01-SA5B-120910)	2,6-DINITROTOLUENE	83	84	85.00-115.00	-	2,6-DINITROTOLUENE	J(all detects) UJ(all non-detects)
	2-NITROANILINE	76	80	83.00-116.00	-	2-NITROANILINE	
	2-NITROPHENOL	77	81	86.00-120.00	-	2-NITROPHENOL	
	3,3'-DICHLOROBENZIDINE	44	-	49.00-111.00	-	3,3'-DICHLOROBENZIDINE	
	4-NITROANILINE	58	-	59.00-100.00	-	4-NITROANILINE	
	BENZOIC ACID	-	-	10.00-69.00	39 (30.00)	BENZOIC ACID	
	CARBAZOLE	76	79	81.00-114.00	-	CARBAZOLE	
	DIBENZOFURAN	79	82	83.00-108.00	-	DIBENZOFURAN	

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WILCSQ260813 P7WILCSY260850 (EB01-SA5B-120910)	N-NITROSODIMETHYLAMINE	67	68	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03494AQ242201A (SL-017-SA5B-SS-0.0-0.5 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: PrepDE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03501AQ241924A (SL-017-SA5B-SS-0.0-0.5 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	4,4'-DDT METHOXYCHLOR	134 141	- -	54.00-130.00 59.00-125.00	- -	4,4'-DDT METHOXYCHLOR	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LGLCSQ260831 (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	BIS(2-CHLOROISOPROPYL) ET	58	-	68.00-131.00	-	BIS(2-CHLOROISOPROPYL) E	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
P34926BQ221458A (SL-012-SA5C-SB-4.0-5.0 SL-012-SA5C-SB-9.0-10.0 SL-013-SA5C-SB-4.0-5.0 SL-013-SA5C-SB-9.0-10.0 SL-015-SA5C-SB-4.0-5.0 SL-015-SA5C-SB-9.0-10.0 SL-016-SA5C-SB-4.0-5.0 SL-016-SA5C-SB-9.0-10.0 SL-017-SA5B-SS-0.0-0.5 SL-020-SA5C-SB-4.0-5.0 SL-020-SA5C-SB-7.5-8.5 SL-021-SA5C-SB-4.0-5.0 SL-021-SA5C-SB-9.0-10.0 SL-022-SA5C-SB-4.0-5.0 SL-022-SA5C-SB-9.0-10 SL-029-SA5B-SS-0.0-0.5 SL-034-SA5B-SS-0.0-0.5 SL-035-SA5B-SS-0.0-0.5 SL-036-SA5B-SS-0.0-0.5)	ANTIMONY	61	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE033 Laboratory: LL

EDD Filename: DE033_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-015-SA5C-SB-4.0-5.0	n-Triacontane-d62	192	50.00-150.00	All Target Analytes	J(all detects)
SL-015-SA5C-SB-9.0-10.0	n-Triacontane-d62	197	50.00-150.00	All Target Analytes	J(all detects)
SL-016-SA5C-SB-4.0-5.0	n-Triacontane-d62	195	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
TB-120810	TRIFLUOROTOLUENE (FID)	75	77.00-119.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8330A
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB14-SA5C-120810	2-NITRO-M-XYLENE	63	75.00-120.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA5B-120910	SILVER	J	0.00010	0.00050	PQL	mg/L	J (all detects)

Method: 8015B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB14-SA5C-120810	ETHANOL	J	520	1000	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA5B-120910	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.22	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.077	1.0	PQL	ug/L	
	Diethylphthalate	J	0.090	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.26	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.075	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.032	0.051	PQL	ug/L	

Method: 8315A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB14-SA5C-120810	FORMALDEHYDE	J	12	50	PQL	ug/L	J (all detects)

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	26.8	40.7	PQL	ng/Kg	J (all detects)
SL-015-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	24.8	36.8	PQL	ng/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	31.3	36.3	PQL	ng/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	22.3	36.5	PQL	ng/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	21.8	36.4	PQL	ng/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	22.9	35.6	PQL	ng/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.8	PQL	mg/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-020-SA5C-SB-7.5-8.5	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5C-SB-9.0-10.0	PERCHLORATE	J	12.2	33.0	PQL	ug/Kg	J (all detects)
SL-029-SA5B-SS-0.0-0.5	PERCHLORATE	J	30.9	32.8	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	BORON	J	2.63	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	1.79	10.6	PQL	mg/Kg	
	Zirconium	J	1.98	5.29	PQL	mg/Kg	
SL-012-SA5C-SB-9.0-10.0	BORON	J	3.90	5.99	PQL	mg/Kg	J (all detects)
	TIN	J	2.13	12.0	PQL	mg/Kg	
	Zirconium	J	4.32	5.99	PQL	mg/Kg	
SL-013-SA5C-SB-4.0-5.0	BORON	J	2.86	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.68	10.5	PQL	mg/Kg	
	Zirconium	J	1.48	5.27	PQL	mg/Kg	
SL-013-SA5C-SB-9.0-10.0	BORON	J	2.48	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	1.78	10.4	PQL	mg/Kg	
	Zirconium	J	0.977	5.22	PQL	mg/Kg	
SL-015-SA5C-SB-4.0-5.0	BORON	J	2.53	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.12	10.6	PQL	mg/Kg	
	Zirconium	J	1.56	5.31	PQL	mg/Kg	
SL-015-SA5C-SB-9.0-10.0	BORON	J	2.75	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.01	10.7	PQL	mg/Kg	
	Zirconium	J	0.933	5.33	PQL	mg/Kg	
SL-016-SA5C-SB-4.0-5.0	BORON	J	2.34	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.23	10.9	PQL	mg/Kg	
	Zirconium	J	1.58	5.43	PQL	mg/Kg	
SL-016-SA5C-SB-9.0-10.0	BORON	J	2.91	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.5	PQL	mg/Kg	
	Zirconium	J	1.78	5.24	PQL	mg/Kg	
SL-017-SA5B-SS-0.0-0.5	BORON	J	4.05	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	106	PQL	mg/Kg	
	TIN	J	2.17	10.6	PQL	mg/Kg	
	Zirconium	J	2.61	5.31	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA5C-SB-4.0-5.0	BORON	J	2.16	5.51	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	110	PQL	mg/Kg	
	TIN	J	2.12	11.0	PQL	mg/Kg	
	Zirconium	J	1.94	5.51	PQL	mg/Kg	
SL-020-SA5C-SB-7.5-8.5	BORON	J	2.73	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	2.05	10.7	PQL	mg/Kg	
	Zirconium	J	1.52	5.37	PQL	mg/Kg	
SL-021-SA5C-SB-4.0-5.0	BORON	J	2.16	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	1.68	10.4	PQL	mg/Kg	
	Zirconium	J	1.05	5.19	PQL	mg/Kg	
SL-021-SA5C-SB-9.0-10.0	BORON	J	2.17	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.44	10.6	PQL	mg/Kg	
	Zirconium	J	1.71	5.31	PQL	mg/Kg	
SL-022-SA5C-SB-4.0-5.0	BORON	J	1.80	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.00	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.38	PQL	mg/Kg	
SL-022-SA5C-SB-9.0-10	BORON	J	2.02	5.57	PQL	mg/Kg	J (all detects)
	TIN	J	2.49	11.1	PQL	mg/Kg	
	Zirconium	J	2.42	5.57	PQL	mg/Kg	
SL-029-SA5B-SS-0.0-0.5	BORON	J	3.84	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.12	10.6	PQL	mg/Kg	
	Zirconium	J	2.75	5.31	PQL	mg/Kg	
SL-034-SA5B-SS-0.0-0.5	BORON	J	3.87	5.20	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.1	104	PQL	mg/Kg	
	TIN	J	1.87	10.4	PQL	mg/Kg	
	Zirconium	J	1.98	5.20	PQL	mg/Kg	
SL-035-SA5B-SS-0.0-0.5	BORON	J	3.94	5.43	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	109	PQL	mg/Kg	
	TIN	J	1.63	10.9	PQL	mg/Kg	
	Zirconium	J	4.03	5.43	PQL	mg/Kg	
SL-036-SA5B-SS-0.0-0.5	BORON	J	3.38	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.6	108	PQL	mg/Kg	
	TIN	J	1.96	10.8	PQL	mg/Kg	
	Zirconium	J	2.09	5.42	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	ANTIMONY	J	0.102	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.104	0.106	PQL	mg/Kg	
	SELENIUM	J	0.215	0.423	PQL	mg/Kg	
	SILVER	J	0.0279	0.106	PQL	mg/Kg	
SL-012-SA5C-SB-9.0-10.0	ANTIMONY	J	0.134	0.244	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0888	0.489	PQL	mg/Kg	
	SILVER	J	0.0168	0.122	PQL	mg/Kg	
SL-013-SA5C-SB-4.0-5.0	ANTIMONY	J	0.114	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.204	0.434	PQL	mg/Kg	
	SILVER	J	0.0413	0.109	PQL	mg/Kg	
SL-013-SA5C-SB-9.0-10.0	SELENIUM	J	0.116	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0312	0.110	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0688	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.256	0.438	PQL	mg/Kg	
	SILVER	J	0.0235	0.109	PQL	mg/Kg	
SL-015-SA5C-SB-9.0-10.0	SELENIUM	J	0.115	0.427	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0229	0.107	PQL	mg/Kg	
SL-016-SA5C-SB-4.0-5.0	CADMIUM	J	0.0751	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.124	0.422	PQL	mg/Kg	
	SILVER	J	0.0261	0.105	PQL	mg/Kg	
SL-016-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0952	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.170	0.431	PQL	mg/Kg	
	SILVER	J	0.0334	0.108	PQL	mg/Kg	
SL-017-SA5B-SS-0.0-0.5	ANTIMONY	J	0.140	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.433	PQL	mg/Kg	
	SILVER	J	0.0385	0.108	PQL	mg/Kg	
SL-020-SA5C-SB-4.0-5.0	SELENIUM	J	0.0983	0.428	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0350	0.107	PQL	mg/Kg	
SL-020-SA5C-SB-7.5-8.5	ANTIMONY	J	0.0882	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0615	0.417	PQL	mg/Kg	
	SILVER	J	0.0607	0.104	PQL	mg/Kg	
SL-021-SA5C-SB-4.0-5.0	SELENIUM	J	0.116	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0297	0.104	PQL	mg/Kg	
SL-021-SA5C-SB-9.0-10.0	ANTIMONY	J	0.0986	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.429	PQL	mg/Kg	
	SILVER	J	0.0462	0.107	PQL	mg/Kg	
SL-022-SA5C-SB-4.0-5.0	SELENIUM	J	0.0902	0.435	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0448	0.109	PQL	mg/Kg	
SL-022-SA5C-SB-9.0-10	SELENIUM	J	0.116	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0425	0.113	PQL	mg/Kg	
SL-029-SA5B-SS-0.0-0.5	ANTIMONY	J	0.112	0.208	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0278	0.104	PQL	mg/Kg	
SL-034-SA5B-SS-0.0-0.5	ANTIMONY	J	0.138	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.229	0.424	PQL	mg/Kg	
	SILVER	J	0.0315	0.106	PQL	mg/Kg	
SL-035-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0787	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.174	0.426	PQL	mg/Kg	
	SILVER	J	0.0195	0.107	PQL	mg/Kg	
SL-036-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0978	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.421	PQL	mg/Kg	
	SILVER	J	0.0308	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-022-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-035-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-036-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5C-SB-4.0-5.0	MERCURY	J	0.0048	0.107	PQL	mg/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	MERCURY	J	0.0072	0.107	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	MERCURY	J	0.0073	0.0998	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-9.0-10.0	MERCURY	J	0.0070	0.102	PQL	mg/Kg	J (all detects)
SL-029-SA5B-SS-0.0-0.5	MERCURY	J	0.0041	0.101	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	ETHANOL METHANOL	J J	310 130	560 560	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-012-SA5C-SB-9.0-10.0	ETHANOL METHANOL	J J	330 140	610 610	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-013-SA5C-SB-4.0-5.0	ETHANOL	J	260	550	PQL	ug/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	ETHANOL	J	260	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.53	1.3	PQL	mg/Kg	J (all detects)
SL-016-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	5.8	6.6	PQL	mg/Kg	J (all detects)
SL-020-SA5C-SB-4.0-5.0	EFH (C21-C30)	J	1.2	1.3	PQL	mg/Kg	J (all detects)
SL-020-SA5C-SB-7.5-8.5	EFH (C30-C40)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	EFH (C15-C20)	J	0.48	1.3	PQL	mg/Kg	J (all detects)
SL-021-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.63	1.3	PQL	mg/Kg	J (all detects)
SL-022-SA5C-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.66 0.75	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-022-SA5C-SB-9.0-10	EFH (C21-C30)	J	0.48	1.4	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5B-SS-0.0-0.5	BETA-BHC	J	0.071	0.18	PQL	ug/Kg	J (all detects)
SL-034-SA5B-SS-0.0-0.5	4,4'-DDT MIREX	J J	0.13 0.10	0.37 0.37	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	AROCLOR 1260	J	0.75	1.9	PQL	ug/Kg	J (all detects)
SL-012-SA5C-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260	J J	1.1 0.81	2.1 2.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-013-SA5C-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.2 0.76	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260	J J	0.79 0.56	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260	J J	0.68 0.65	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-016-SA5C-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260	J J	1.6 0.62	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	0.79 0.89	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-021-SA5C-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	0.87 0.79	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-021-SA5C-SB-9.0-10.0	AROCLOR 1248 AROCLOR 1254 AROCLOR 1260	J J J	1.6 0.78 0.64	1.9 1.9 1.9	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-035-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.58	1.9	PQL	ug/Kg	J (all detects)
SL-036-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.51	1.9	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA5B-SS-0.0-0.5	DICAMBA	J	0.90	1.3	PQL	ug/Kg	J (all detects)
SL-036-SA5B-SS-0.0-0.5	DICAMBA	J	0.57	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.1 0.1	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-012-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	2.3 0.12	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-013-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.49	3.8	PQL	ug/Kg	J (all detects)
SL-013-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.80	3.7	PQL	ug/Kg	J (all detects)
SL-015-SA5C-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.44 0.15	3.5 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	2.2 0.17	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.15 0.13	3.6 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	3.0	7.8	PQL	ug/Kg	J (all detects)
	CHLOROFORM	J	0.16	3.9	PQL	ug/Kg	
	TOLUENE	J	0.14	3.9	PQL	ug/Kg	
SL-017-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.59	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.08	4.0	PQL	ug/Kg	
SL-020-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.6	3.6	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	3.6	PQL	ug/Kg	
SL-020-SA5C-SB-7.5-8.5	METHYLENE CHLORIDE	J	0.72	3.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	3.4	PQL	ug/Kg	
SL-021-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.11	3.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	3.5	PQL	ug/Kg	
SL-021-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.9	3.8	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.14	3.8	PQL	ug/Kg	
SL-022-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.68	4.4	PQL	ug/Kg	J (all detects)
SL-022-SA5C-SB-9.0-10	METHYLENE CHLORIDE	J	1.5	3.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	370	PQL	ug/Kg	J (all detects)
SL-013-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	370	PQL	ug/Kg	J (all detects)
SL-015-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	360	PQL	ug/Kg	J (all detects)
SL-016-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-017-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-034-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-035-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5C-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.96	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.76	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.76	1.9	PQL	ug/Kg	
	PYRENE	J	0.84	1.9	PQL	ug/Kg	
SL-012-SA5C-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.1	2.0	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	22	PQL	ug/Kg	
	Di-n-butylphthalate	J	16	22	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	2.0	PQL	ug/Kg	
SL-013-SA5C-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5C-SB-9.0-10.0	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	15	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.8	PQL	ug/Kg	
SL-015-SA5C-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.81	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.88	1.8	PQL	ug/Kg	
	PYRENE	J	0.78	1.8	PQL	ug/Kg	
SL-015-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	0.80	1.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.8	PQL	ug/Kg	
SL-016-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.85	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.8	20	PQL	ug/Kg	
SL-017-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	0.75	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-020-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	0.80	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.87	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	10	20	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-021-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.2	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.85	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	
SL-021-SA5C-SB-9.0-10.0	ACENAPHTHYLENE	J	0.63	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	19	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.9	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.5	20	PQL	ug/Kg	
	FLUORENE	J	1.0	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.8	PQL	ug/Kg	
SL-022-SA5C-SB-9.0-10	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	21	PQL	ug/Kg	J (all detects)
SL-029-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.94	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	20	PQL	ug/Kg	
	PHENANTHRENE	J	0.91	1.8	PQL	ug/Kg	
SL-034-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.98	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	8.3	20	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.88	1.8	PQL	ug/Kg	
	PYRENE	J	1.6	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE033 **Laboratory: LL**

EDD Filename: DE033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-035-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.5	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.90	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-036-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.93	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.9	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.3	20	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	

LDC #: 25337E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-4-11
SDG #: DE033 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, K, Ti, Zn >4X) RPDs
VII.	Duplicate Sample Analysis	N	Dup (Sb, B, Hg, Ag, Tl <5x RL). Be <5x RL difference >5x RL
VIII.	Laboratory Control Samples (LCS)	N	T/W/A
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (Cr, Co, Cu, Ni, Zn)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=10

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

Validated Samples: soil/water

1	SL-015-SA5C-SB-4.0-5.0	11	SL-029-SA5B-SS-0.0-0.5	21	SL-017-SA5B-SS-0.0-0.5MS	31	
2	SL-015-SA5C-SB-9.0-10.0	12	SL-034-SA5B-SS-0.0-0.5	22	SL-017-SA5B-SS-0.0-0.5MSD	32	
3	SL-020-SA5C-SB-4.0-5.0	13	SL-035-SA5B-SS-0.0-0.5	23	SL-017-SA5B-SS-0.0-0.5DUP	33	
4	SL-020-SA5C-SB-7.5-8.5	14	SL-036-SA5B-SS-0.0-0.5	24		34	
5	SL-016-SA5C-SB-4.0-5.0	15	SL-022-SA5C-SB-4.0-5.0	25		35	
6	SL-016-SA5C-SB-9.0-10.0	16	SL-022-SA5C-SB-9.0-10.0	26		36	
7	SL-021-SA5C-SB-4.0-5.0	17	SL-012-SA5C-SB-4.0-5.0	27		37	
8	SL-021-SA5C-SB-9.0-10.0	18	SL-012-SA5C-SB-9.0-10.0	28		38	
9	SL-017-SA5B-SS-0.0-0.5	19	SL-013-SA5C-SB-4.0-5.0	29		39	
10	EB-01-SA5B-120910 W	20	SL-013-SA5C-SB-9.0-10.0	30		40	

Notes:

LDC #: 25337E4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICPMS: 2xdil)

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil

			Sample Identification																
Analyte	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	1	4	6	8	9	11	12	13	14	17	18	19					
Sb	0.33	0.33	0.069	0.088	0.095	0.099	0.14	0.11	0.14	0.079	0.098	0.10	0.13	0.11					

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Water

					Sample Identification									
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	10									
Ag			0.16	0.8	0.10									

LDC #: 25337E4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: OR
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: ug/L **Associated sample units:** mg/Kg
Sampling date: 12/9/10 Soil factor applied 100x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: 15-20

Analyte	Blank ID	Sample Identification										
	8	Action Level	No Qualifiers (>5x)									
Ag	0.10	0.05										

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE033
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6162864BKG Serial Dilution Lab Sample ID: 6162864L
Batch ID(s): P34908B, P34926B, P35008C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		125675.2800		128924.3500		3		P
Antimony	121	0.6459	B	1.5000	U	100		MS
Arsenic	75	27.6900		26.7350		3		MS
Barium	137	505.1000		524.5000		4		MS
Beryllium	9	3.0580		2.8885		6		MS
Boron		38.1400	B	79.8500	B	109		P
Cadmium	111	0.5414		0.9000	U	100		MS
Calcium		46602.0400		47171.4500		1		P
Chromium	52	111.6000		125.9000		13	E	MS
Cobalt	59	30.0600		36.4600		21	E	MS
Copper	63	50.8800		58.9000		16	E	MS
Iron		174018.7800		168903.5500		3		P
Lead	208	33.2700		35.1550		6		MS
Lithium		167.8600		171.0500		2		P
Magnesium		38610.4700		39091.1000		1		P
Manganese		2204.5100		2274.5500		3		P
Molybdenum	98	5.7400		4.8900		15		MS
Nickel	60	61.2200		74.9000		22	E	MS
Phosphorus		4197.5700		4335.5500		3		P
Potassium		27047.8200		26919.7000		0		P
Selenium	78	0.8797	B	1.7040	B	94		MS
Silver	107	0.1781	B	0.3457	B	94		MS
Sodium		992.3500	B	1865.0000	U	100		P
Strontium		260.9500		259.3000		1		P
Thallium	203	1.3100		1.4165	B	8		MS
Tin		20.4300	B	50.0000	U	100		P
Titanium		4895.5600		4753.6000		3		P
Vanadium	51	192.3000		208.2000		8		MS
Zinc	66	401.2000		477.6000		19	E	MS
Zirconium		24.5900	B	42.0000	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.

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

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3050B	6020	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3060A	7199	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3546	1625C	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8015B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8015M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8270C	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	5035	8015M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	5035	8260B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	5035	8260B SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	8330	8330A	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	Gen Prep	9045M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	300.0	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	314.0	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	7471A	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	8015B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	8015M	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	8315A	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0	6162903	N	METHOD	9012B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0DUP	P162903D221938	DUP	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M221946	MSD	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M240932A	MSD	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M260707	MSD	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MSD	P162903M261352	MSD	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
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R221942	MS	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R240913A	MS	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R260633	MS	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-4.0-5.0MS	P162903R261326	MS	3550B	8270C	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3050B	6010B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3050B	6020	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3060A	7199	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3546	1625C	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8015B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8015M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8082	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8270C	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	3550B	8270C SIM	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	5035	8015M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	5035	8260B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	5035	8260B SIM	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	8330	8330A	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	Gen Prep	9045M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	300.0	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	314.0	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	7471A	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	8015B	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	8015M	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	8315A	III
09-Dec-2010	SL-017-SA5C-SB-9.0-10.0	6162904	N	METHOD	9012B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	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
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3060A	7199	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8081A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8082	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8151A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8270C	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	3550B	8270C SIM	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	Gen Prep	9045M	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	METHOD	300.0	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	METHOD	314.0	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5	6162905	N	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D220512	DUP	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D220628A	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441A	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441B	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441C	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D221441D	DUP	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5DUP	P162905D222305	DUP	3050B	6010B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M220517	MSD	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M220631A	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447A	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447B	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447C	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M221447D	MSD	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M222312	MSD	3050B	6010B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MSD	P162905M240427A	MSD	3550B	8151A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R220516	MS	METHOD	7471A	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R220629A	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444A	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444B	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444C	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R221444D	MS	3050B	6020	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R222308	MS	3050B	6010B	III
10-Dec-2010	SL-008-SA5B-SS-0.0-0.5MS	P162905R240359A	MS	3550B	8151A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3050B	6010B	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3050B	6020	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3060A	7199	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8081A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8082	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8151A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8270C	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	3550B	8270C SIM	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	METHOD	300.0	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	METHOD	314.0	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5	6162906	N	METHOD	7471A	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5DUP	P162906D270752A	DUP	METHOD	314.0	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5DUP	P162906D291045B	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5B-SS-0.0-0.5MS	P162906R272215A	MS	METHOD	314.0	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3050B	6010B	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3050B	6020	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	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
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8081A	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8082	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8151A	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8270C	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	3550B	8270C SIM	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	Gen Prep	9045M	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	METHOD	300.0	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	METHOD	314.0	III
10-Dec-2010	SL-229-SA5B-SS-0.0-0.5	6162908	N	METHOD	7471A	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3050B	6010B	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3050B	6020	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3060A	7199	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8081A	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8082	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8151A	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8270C	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	3550B	8270C SIM	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	Gen Prep	9045M	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	METHOD	300.0	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	METHOD	314.0	III
10-Dec-2010	SL-048-SA5B-SS-0.0-0.5	6162909	N	METHOD	7471A	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3050B	6010B	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3050B	6020	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3060A	7199	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8081A	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8151A	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8270C	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	3550B	8270C SIM	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	Gen Prep	9045M	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	METHOD	300.0	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	METHOD	314.0	III
10-Dec-2010	SL-228-SA5B-SS-0.0-0.5	6162907	N	METHOD	7471A	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3050B	6010B	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3050B	6020	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3060A	7199	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8081A	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8082	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8151A	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8270C	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	3550B	8270C SIM	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	Gen Prep	9045M	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	METHOD	300.0	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	METHOD	314.0	III
10-Dec-2010	SL-299-SA5B-SS-0.0-0.5	6162915	N	METHOD	7471A	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3050B	6010B	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3050B	6020	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3060A	7199	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8081A	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8082	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8151A	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	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
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	3550B	8270C SIM	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	Gen Prep	9045M	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	METHOD	300.0	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	METHOD	314.0	III
10-Dec-2010	SL-300-SA5B-SS-0.0-0.5	6162916	N	METHOD	7471A	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3050B	6010B	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3050B	6020	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3060A	7199	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8081A	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8082	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8151A	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8270C	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	3550B	8270C SIM	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	Gen Prep	9045M	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	METHOD	300.0	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	METHOD	314.0	III
10-Dec-2010	SL-233-SA5B-SS-0.0-0.5	6162914	N	METHOD	7471A	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3050B	6010B	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3050B	6020	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3060A	7199	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8081A	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8082	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8151A	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8270C	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	3550B	8270C SIM	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	METHOD	300.0	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	METHOD	314.0	III
10-Dec-2010	SL-232-SA5B-SS-0.0-0.5	6162913	N	METHOD	7471A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3050B	6010B	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3050B	6020	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3060A	7199	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8081A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8082	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8151A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8270C	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	3550B	8270C SIM	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	Gen Prep	9045M	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	METHOD	300.0	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	METHOD	314.0	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5	6162911	N	METHOD	7471A	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5DUP	P162911D271209A	DUP	METHOD	300.0	III
10-Dec-2010	SL-062-SA5B-SS-0.0-0.5MS	P162911R271252A	MS	METHOD	300.0	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3050B	6010B	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3050B	6020	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3060A	7199	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8081A	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8082	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8151A	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8270C	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	3550B	8270C SIM	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	METHOD	300.0	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	METHOD	314.0	III
10-Dec-2010	SL-064-SA5B-SS-0.0-0.5	6162912	N	METHOD	7471A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3050B	6010B	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3050B	6020	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3060A	7199	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8081A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8082	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8151A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8270C	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	3550B	8270C SIM	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	Gen Prep	9045M	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	METHOD	300.0	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	METHOD	314.0	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5	6162910	N	METHOD	7471A	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5DUP	P162910D272018A	DUP	3060A	7199	III
10-Dec-2010	SL-051-SA5B-SS-0.0-0.5MS	P162910R271930A	MS	3060A	7199	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3050B	6010B	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3050B	6020	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3060A	7199	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8081A	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8082	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8151A	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8270C	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	3550B	8270C SIM	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	METHOD	300.0	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	METHOD	314.0	III
10-Dec-2010	SL-070-SA5B-SS-0.0-0.5	6162921	N	METHOD	7471A	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3050B	6010B	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3050B	6020	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3060A	7199	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8081A	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8082	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8151A	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8270C	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	3550B	8270C SIM	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	Gen Prep	9045M	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	METHOD	300.0	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	METHOD	314.0	III
10-Dec-2010	SL-061-SA5B-SS-0.0-0.5	6162920	N	METHOD	7471A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3050B	6010B	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3050B	6020	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3060A	7199	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8081A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8082	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8151A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8270C	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	3550B	8270C SIM	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	Gen Prep	9045M	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	METHOD	300.0	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	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
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5	6162917	N	METHOD	7471A	III
10-Dec-2010	SL-067-SA5B-SS-0.0-0.5DUP	P162917D291300A	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3050B	6010B	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3050B	6020	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3060A	7199	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8081A	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8082	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8151A	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8270C	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	3550B	8270C SIM	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	Gen Prep	9045M	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	METHOD	300.0	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	METHOD	314.0	III
10-Dec-2010	SL-059-SA5B-SS-0.0-0.5	6162918	N	METHOD	7471A	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3050B	6010B	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3050B	6020	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3060A	7199	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8081A	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8082	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8151A	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8270C	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	3550B	8270C SIM	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	Gen Prep	9045M	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	METHOD	300.0	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	N	METHOD	314.0	III
10-Dec-2010	SL-065-SA5B-SS-0.0-0.5	6162919	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: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-009-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 8:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0 **Collected:** 12/9/2010 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
Nitrate-NO3	0.96	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 9:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.98	J	0.90	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 2:24:00 **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		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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
FLUORIDE	3.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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
FLUORIDE	3.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	21.3	J	9.6	MDL	32.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	41500		6.23	MDL	20.3	PQL	mg/Kg	J	E, E
POTASSIUM	2290		18.3	MDL	50.8	PQL	mg/Kg	J	Q
STRONTIUM	270		0.0630	MDL	0.508	PQL	mg/Kg	J	E, E, Q
TIN	1.59	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.853	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7540		6.43	MDL	21.0	PQL	mg/Kg	J	E, E
POTASSIUM	2450		18.9	MDL	52.5	PQL	mg/Kg	J	Q
STRONTIUM	33.1		0.0651	MDL	0.525	PQL	mg/Kg	J	E, E, Q
TIN	1.92	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.882	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 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
CALCIUM	2160		6.60	MDL	21.5	PQL	mg/Kg	J	E, E
POTASSIUM	2340		19.4	MDL	53.8	PQL	mg/Kg	J	Q
SODIUM	105	J	40.1	MDL	108	PQL	mg/Kg	J	Z
STRONTIUM	19.0		0.0667	MDL	0.538	PQL	mg/Kg	J	E, E, Q
TIN	1.77	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 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
CALCIUM	1780		6.66	MDL	21.7	PQL	mg/Kg	J	E, E
POTASSIUM	1700		19.5	MDL	54.3	PQL	mg/Kg	J	Q
STRONTIUM	18.0		0.0673	MDL	0.543	PQL	mg/Kg	J	E, E, Q
TIN	2.56	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2620		6.71	MDL	21.9	PQL	mg/Kg	J	E, E
POTASSIUM	4830		19.7	MDL	54.7	PQL	mg/Kg	J	Q
SODIUM	80.4	J	40.8	MDL	109	PQL	mg/Kg	J	Z
STRONTIUM	13.7		0.0679	MDL	0.547	PQL	mg/Kg	J	E, E, Q
TIN	3.11	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	23000		6.80	MDL	22.2	PQL	mg/Kg	J	E, E
POTASSIUM	3810		20.0	MDL	55.5	PQL	mg/Kg	J	Q
STRONTIUM	50.0		0.0688	MDL	0.555	PQL	mg/Kg	J	E, E, Q
TIN	2.10	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.932	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	76000		35.2	MDL	115	PQL	mg/Kg	J	E, E

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4540		20.7	MDL	57.4	PQL	mg/Kg	J	Q
STRONTIUM	136		0.0712	MDL	0.574	PQL	mg/Kg	J	E, E, Q
TIN	1.35	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.57	J	0.964	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	42700		6.82	MDL	22.2	PQL	mg/Kg	J	E, E
POTASSIUM	4240		20.0	MDL	55.6	PQL	mg/Kg	J	Q
STRONTIUM	89.5		0.0690	MDL	0.556	PQL	mg/Kg	J	E, E, Q
TIN	2.04	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.33	J	0.934	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:00:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	68400		34.4	MDL	112	PQL	mg/Kg	J	E, E

Sample ID: SL-062-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
POTASSIUM	5630		20.2	MDL	56.2	PQL	mg/Kg	J	Q
STRONTIUM	112		0.0696	MDL	0.562	PQL	mg/Kg	J	E, E, Q
TIN	1.51	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.72	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	20300		6.60	MDL	21.5	PQL	mg/Kg	J	E, E
POTASSIUM	5080		19.4	MDL	53.8	PQL	mg/Kg	J	Q
STRONTIUM	43.0		0.0668	MDL	0.538	PQL	mg/Kg	J	E, E, Q
TIN	1.79	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.904	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
CALCIUM	44500		6.70	MDL	21.9	PQL	mg/Kg	J	E, E
POTASSIUM	4160		19.7	MDL	54.6	PQL	mg/Kg	J	Q
STRONTIUM	88.2		0.0678	MDL	0.546	PQL	mg/Kg	J	E, E, Q
TIN	2.08	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.10	J	0.918	MDL	5.46	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
CALCIUM	17800		6.54	MDL	21.3	PQL	mg/Kg	J	E, E
POTASSIUM	2410		19.2	MDL	53.3	PQL	mg/Kg	J	Q
STRONTIUM	39.5		0.0661	MDL	0.533	PQL	mg/Kg	J	E, E, Q
TIN	1.39	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	72300		35.7	MDL	117	PQL	mg/Kg	J	E, E

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4450		21.0	MDL	58.3	PQL	mg/Kg	J	Q
STRONTIUM	126		0.0723	MDL	0.583	PQL	mg/Kg	J	E, E, Q
TIN	1.26	J	1.17	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	3.14	J	0.980	MDL	5.83	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
CALCIUM	4930		8.29	MDL	27.0	PQL	mg/Kg	J	E, E
POTASSIUM	2620		24.3	MDL	67.6	PQL	mg/Kg	J	Q
SODIUM	72.1	J	50.4	MDL	135	PQL	mg/Kg	J	Z
STRONTIUM	13.4		0.0838	MDL	0.676	PQL	mg/Kg	J	E, E, Q
TIN	1.91	J	1.35	MDL	13.5	PQL	mg/Kg	U	B
Zirconium	1.27	J	1.14	MDL	6.76	PQL	mg/Kg	J	Z

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4140		6.91	MDL	22.6	PQL	mg/Kg	J	E, E
POTASSIUM	2520		20.3	MDL	56.4	PQL	mg/Kg	J	Q
STRONTIUM	30.3		0.0699	MDL	0.564	PQL	mg/Kg	J	E, E, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.59	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.55	J	0.947	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	48700		6.92	MDL	22.6	PQL	mg/Kg	J	E, E
POTASSIUM	5080		20.3	MDL	56.5	PQL	mg/Kg	J	Q
STRONTIUM	91.8		0.0700	MDL	0.565	PQL	mg/Kg	J	E, E, Q
TIN	2.06	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.22	J	0.949	MDL	5.65	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	41700		6.76	MDL	22.0	PQL	mg/Kg	J	E, E
POTASSIUM	4630		19.8	MDL	55.1	PQL	mg/Kg	J	Q
STRONTIUM	83.7		0.0683	MDL	0.551	PQL	mg/Kg	J	E, E, Q
TIN	1.99	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.70	J	0.926	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	79500		34.8	MDL	114	PQL	mg/Kg	J	E, E

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4620		20.4	MDL	56.8	PQL	mg/Kg	J	Q
STRONTIUM	134		0.0704	MDL	0.568	PQL	mg/Kg	J	E, E, Q
TIN	1.21	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.16	J	0.954	MDL	5.68	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	63500		7.32	MDL	23.9	PQL	mg/Kg	J	E, E
POTASSIUM	4990		21.5	MDL	59.7	PQL	mg/Kg	J	Q
STRONTIUM	120		0.0740	MDL	0.597	PQL	mg/Kg	J	E, E, Q
TIN	1.41	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	3.15	J	1.00	MDL	5.97	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.9		0.0228	MDL	0.104	PQL	mg/Kg	J	E, A

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0415	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.815		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0622	MDL	0.207	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	4.34		0.0622	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.179		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	16.0		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COBALT	5.33		0.0207	MDL	0.104	PQL	mg/Kg	J	Q
LEAD	5.13		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	9.28		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0612	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.173		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	27.7		0.0233	MDL	0.106	PQL	mg/Kg	J	E, A

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.08		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0834	J	0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	4.81		0.0636	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.314		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	20.3		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	6.14		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
LEAD	6.01		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	12.8		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.120		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
THALLIUM	0.235		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 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
VANADIUM	30.2		0.0244	MDL	0.111	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 10:20:00 *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	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 10:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.680		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 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	0.0665	U	0.0665	MDL	0.222	PQL	mg/Kg	R	Q
ARSENIC	5.10		0.0665	MDL	0.443	PQL	mg/Kg	J	Q
CADMIUM	0.219		0.0399	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	20.0		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	8.93		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	7.25		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	14.9		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0486	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 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
VANADIUM	31.8		0.0241	MDL	0.110	PQL	mg/Kg	J	E, A

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 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
SELENIUM	0.0439	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 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
MOLYBDENUM	0.466		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 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	0.0658	U	0.0658	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	5.44		0.0658	MDL	0.439	PQL	mg/Kg	J	Q
CADMIUM	0.0750	J	0.0395	MDL	0.110	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.8		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	12.6		0.0219	MDL	0.110	PQL	mg/Kg	J	Q
LEAD	5.87		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	12.1		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0371	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.291		0.0329	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	26.7		0.0248	MDL	0.113	PQL	mg/Kg	J	E, A

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0943	J	0.0451	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.327		0.0564	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0697	J	0.0676	MDL	0.225	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	5.75		0.0676	MDL	0.451	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0406	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	16.6		0.135	MDL	0.451	PQL	mg/Kg	J	Q
COBALT	5.82		0.0225	MDL	0.113	PQL	mg/Kg	J	Q
LEAD	7.82		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	10.9		0.113	MDL	0.451	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0230	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.395		0.0338	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.1		0.0244	MDL	0.111	PQL	mg/Kg	J	E, A

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0444	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.668		0.0555	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0666	MDL	0.222	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.92		0.0666	MDL	0.444	PQL	mg/Kg	J	Q
CADMIUM	0.339		0.0400	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	26.8		0.133	MDL	0.444	PQL	mg/Kg	J	Q
COBALT	7.84		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	10.6		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	17.0		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.353		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	46.2		0.0245	MDL	0.111	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *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		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0669	U	0.0669	MDL	0.223	PQL	mg/Kg	R	Q
ARSENIC	6.05		0.0669	MDL	0.446	PQL	mg/Kg	J	Q
CADMIUM	0.352		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	29.1		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	9.45		0.0223	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	9.63		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	18.6		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0325	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.377		0.0334	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.1		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.618		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-061-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:45:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0703	J	0.0674	MDL	0.225	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.71		0.0674	MDL	0.449	PQL	mg/Kg	J	Q
CADMIUM	0.393		0.0404	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.5		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	9.87		0.0225	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	11.3		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	19.9		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0260	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.387		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:00:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.8		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-062-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:00:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.344	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:00:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.442		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-062-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0674	U	0.0674	MDL	0.225	PQL	mg/Kg	R	Q
ARSENIC	7.32		0.0674	MDL	0.449	PQL	mg/Kg	J	Q
CADMIUM	0.457		0.0404	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.8		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	9.51		0.0225	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	10.8		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	20.5		0.112	MDL	0.449	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-062-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0359	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.411		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	41.2		0.0244	MDL	0.111	PQL	mg/Kg	J	E, A

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.187	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.611		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	J	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.89		0.0665	MDL	0.443	PQL	mg/Kg	J	Q
CADMIUM	0.339		0.0399	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	29.5		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	9.34		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
LEAD	10.4		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	19.4		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0352	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.386		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	39.3		0.0236	MDL	0.107	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.460		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0643	U	0.0643	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	5.04		0.0643	MDL	0.429	PQL	mg/Kg	J	Q
CADMIUM	0.298		0.0386	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	24.2		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	7.63		0.0214	MDL	0.107	PQL	mg/Kg	J	Q
LEAD	8.80		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	16.3		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0392	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.312		0.0321	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
VANADIUM	25.1		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
MOLYBDENUM	0.641		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-067-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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	0.0647	U	0.0647	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	4.44		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
CADMIUM	0.333		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	20.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	6.53		0.0216	MDL	0.108	PQL	mg/Kg	J	Q
LEAD	9.23		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	13.2		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0257	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.207		0.0323	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:34:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.1		0.0254	MDL	0.115	PQL	mg/Kg	J	E, A

Sample ID: SL-070-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:34:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.243	J	0.0462	MDL	0.462	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:34:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.447		0.0577	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 1:34:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0788	J	0.0693	MDL	0.231	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	5.87		0.0693	MDL	0.462	PQL	mg/Kg	J	Q
CADMIUM	0.355		0.0416	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	28.8		0.139	MDL	0.462	PQL	mg/Kg	J	Q
COBALT	9.76		0.0231	MDL	0.115	PQL	mg/Kg	J	Q
LEAD	9.85		0.0120	MDL	0.231	PQL	mg/Kg	J	Q, E
NICKEL	20.6		0.115	MDL	0.462	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0307	J	0.0139	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.357		0.0346	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
VANADIUM	23.8		0.0300	MDL	0.137	PQL	mg/Kg	J	E, A

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:12:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0546	MDL	0.546	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:12:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.567		0.0683	MDL	0.137	PQL	mg/Kg	J	Q

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.0967	J	0.0819	MDL	0.273	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	4.24		0.0819	MDL	0.546	PQL	mg/Kg	J	Q
CADMIUM	0.320		0.0492	MDL	0.137	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.164	MDL	0.546	PQL	mg/Kg	J	Q
COBALT	6.02		0.0273	MDL	0.137	PQL	mg/Kg	J	Q
LEAD	12.3		0.0142	MDL	0.273	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.137	MDL	0.546	PQL	mg/Kg	J	Q
SILVER	0.0297	J	0.0164	MDL	0.137	PQL	mg/Kg	J	Z, Q
THALLIUM	0.240		0.0410	MDL	0.137	PQL	mg/Kg	J	Q

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	25.6		0.0248	MDL	0.113	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0451	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.21		0.0564	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0677	MDL	0.226	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	5.27		0.0677	MDL	0.451	PQL	mg/Kg	J	Q
CADMIUM	0.213		0.0406	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.135	MDL	0.451	PQL	mg/Kg	J	Q
COBALT	5.92		0.0226	MDL	0.113	PQL	mg/Kg	J	Q
LEAD	7.53		0.0117	MDL	0.226	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.113	MDL	0.451	PQL	mg/Kg	J	Q
SILVER	0.0404	J	0.0135	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.257		0.0338	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	41.4		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.244	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.686		0.0559	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-232-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 12:59:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0843	J	0.0671	MDL	0.224	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	7.13		0.0671	MDL	0.447	PQL	mg/Kg	J	Q
CADMIUM	0.470		0.0403	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	30.5		0.134	MDL	0.447	PQL	mg/Kg	J	Q
COBALT	9.76		0.0224	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	11.8		0.0116	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	20.1		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0305	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.393		0.0336	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-233-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 12:46:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	45.7		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-233-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 12:46:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.217	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 12:46:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.543		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-233-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 12:46:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0837	J	0.0674	MDL	0.225	PQL	mg/Kg	UJ	Q, Q, B
ARSENIC	6.21		0.0674	MDL	0.450	PQL	mg/Kg	J	Q
CADMIUM	0.374		0.0405	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	30.4		0.135	MDL	0.450	PQL	mg/Kg	J	Q
COBALT	10.0		0.0225	MDL	0.112	PQL	mg/Kg	J	Q
LEAD	10.6		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, E
NICKEL	19.5		0.112	MDL	0.450	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0386	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.377		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	46.5		0.0252	MDL	0.115	PQL	mg/Kg	J	E, A

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.258	J	0.0459	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.441		0.0574	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0688	U	0.0688	MDL	0.229	PQL	mg/Kg	R	Q
ARSENIC	6.85		0.0688	MDL	0.459	PQL	mg/Kg	J	Q
CADMIUM	0.348		0.0413	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	31.3		0.138	MDL	0.459	PQL	mg/Kg	J	Q
COBALT	9.75		0.0229	MDL	0.115	PQL	mg/Kg	J	Q
LEAD	10.4		0.0119	MDL	0.229	PQL	mg/Kg	J	Q, E
NICKEL	21.0		0.115	MDL	0.459	PQL	mg/Kg	J	Q
SILVER	0.0302	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.371		0.0344	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	49.3		0.0255	MDL	0.116	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.229	J	0.0464	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.408		0.0580	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0696	U	0.0696	MDL	0.232	PQL	mg/Kg	R	Q
ARSENIC	6.39		0.0696	MDL	0.464	PQL	mg/Kg	J	Q
CADMIUM	0.349		0.0418	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	29.7		0.139	MDL	0.464	PQL	mg/Kg	J	Q
COBALT	9.12		0.0232	MDL	0.116	PQL	mg/Kg	J	Q
LEAD	9.92		0.0121	MDL	0.232	PQL	mg/Kg	J	Q, E
NICKEL	18.5		0.116	MDL	0.464	PQL	mg/Kg	J	Q
SILVER	0.0190	J	0.0139	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.363		0.0348	MDL	0.116	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.74	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 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	0.71	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.38	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *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	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.41	J	0.28	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0126	J	0.0028	MDL	0.0969	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0352	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0175	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0124	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.0106	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
MERCURY	0.0071	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.0087	J	0.0038	MDL	0.134	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0185	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0050	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0066	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0053	J	0.0033	MDL	0.117	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A Matrix: SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.064	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-062-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
4,4'-DDE	0.088	J	0.077	MDL	0.40	PQL	ug/Kg	J	Z
4,4'-DDT	0.29	J	0.077	MDL	0.40	PQL	ug/Kg	J	Z, L

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.11	J	0.11	MDL	0.20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.12	J	0.068	MDL	0.19	PQL	ug/Kg	J	Z
METHOXYCHLOR	0.96	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z, L

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.14	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z, L
ENDRIN ALDEHYDE	0.10	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.074	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z

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

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.86	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.4	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *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 1260	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	7.7	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *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	0.90	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *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	7.1		0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	5.7		0.37	MDL	1.9	PQL	ug/Kg	J	S
Aroclor 5460	2.6	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z, S

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	3.1	J	0.73	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
AROCLOR 1260	0.73	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *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 1248	1.9	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	3.4	J	0.75	MDL	3.9	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	2.3	MDL	7.5	PQL	ug/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *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 1254	1.2	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	1.0	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

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

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *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)	0.078	U	0.078	MDL	0.18	PQL	ug/Kg	R	Q
2,4-DB	0.64	U	0.64	MDL	1.8	PQL	ug/Kg	R	Q
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	Q, L
MCPP	78	U	78	MDL	260	PQL	ug/Kg	R	Q

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.47	J	0.45	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L
MCPA	170	J	84	MDL	280	PQL	ug/Kg	J	Z
MCPP	200	J	83	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *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	0.89	J	0.71	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L
MCPA	110	J	87	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-065-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-070-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
2,4-DB	1.0	J	0.86	MDL	2.3	PQL	ug/Kg	J	Z
DINOSEB	1.1	U	1.1	MDL	3.3	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory:** LL

EDD Filename: PrepDE034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L
MCPP	180	J	85	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.0	J	0.71	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L
MCPA	200	J	88	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L
MCPA	190	J	86	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	150	J	88	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.97	U	0.97	MDL	2.9	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 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
3,5-Dimethylphenol	130	J	37	MDL	180	PQL	ug/Kg	J	Z
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	R	Q

Sample ID: SL-064-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	58	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
BENZO(A)ANTHRACENE	97	J	90	MDL	900	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	240	J	90	MDL	900	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	130	J	90	MDL	900	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	120	J	90	MDL	900	PQL	ug/Kg	J	Z
CHRYSENE	330	J	90	MDL	900	PQL	ug/Kg	J	Z
PYRENE	98	J	90	MDL	900	PQL	ug/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:12:00 *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	65	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	54	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	82	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	44	J	23	MDL	230	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	36	J	23	MDL	230	PQL	ug/Kg	J	Z
CHRYSENE	88	J	23	MDL	230	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	30	J	23	MDL	230	PQL	ug/Kg	J	Z
Di-n-butylphthalate	26	J	23	MDL	230	PQL	ug/Kg	J	Z
FLUORANTHENE	160	J	23	MDL	230	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	36	J	23	MDL	230	PQL	ug/Kg	J	Z
PHENANTHRENE	79	J	23	MDL	230	PQL	ug/Kg	J	Z
PYRENE	180	J	23	MDL	230	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z

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

Sample ID: SL-008-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.83	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.2	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 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(G,H,I)PERYLENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 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	7.1	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-048-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.8	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-051-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:20:00 *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(B)FLUORANTHENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.92	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	19	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.95	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 2:24:00 *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

Sample ID: SL-061-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	16	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.68	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	15	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: PrepDE034_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-064-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 1:15:00 ***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	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.8	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-065-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 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
BENZO(B)FLUORANTHENE	0.87	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.60	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 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
ANTHRACENE	2.0	J	1.8	MDL	9.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	32	MDL	97	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.2	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 1:34:00 ***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	0.59	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	7.1	MDL	21	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.5	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-228-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 9:12:00 ***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	8.3	MDL	25	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-229-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:40:00 *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	11	J	6.8	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.90	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 12:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.85	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.90	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	6.8	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.4	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.1	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-299-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 10:49:00 *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(A)ANTHRACENE	0.99	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.84	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.0	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-300-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:04:00 *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(G,H,I)PERYLENE	1.6	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	7.2	MDL	22	PQL	ug/Kg	J	Z

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

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 10:20:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	240	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 10:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	230	J	110	MDL	560	PQL	ug/Kg	J	Z

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

Sample ID: SL-017-SA5C-SB-4.0-5.0 *Collected:* 12/9/2010 10:20:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-017-SA5C-SB-9.0-10.0 *Collected:* 12/9/2010 10:30:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.97	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 | Laboratory: LL

EDD Filename: PrepDE034_v1 | eQAPP Name: CDM_SSFL_110509

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: PrepDE034_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: PrepDE034_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE034

Method Blank Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **314.0**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
B0356B271414A	12/27/2010 2:14:00 PM	PERCHLORATE	14.6 ug/Kg	SL-008-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34908CB222245	12/17/2010 10:45:00 PM	PHOSPHORUS TIN	1.90 mg/Kg 1.82 mg/Kg	SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA5B-SS-0.0-0.5(RES)	TIN	1.59 mg/Kg	1.59U mg/Kg
SL-009-SA5B-SS-0.0-0.5(RES)	TIN	1.92 mg/Kg	1.92U mg/Kg
SL-017-SA5C-SB-4.0-5.0(RES)	TIN	1.77 mg/Kg	1.77U mg/Kg
SL-017-SA5C-SB-9.0-10.0(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-048-SA5B-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-051-SA5B-SS-0.0-0.5(RES)	TIN	2.10 mg/Kg	2.10U mg/Kg
SL-059-SA5B-SS-0.0-0.5(RES)	TIN	1.35 mg/Kg	1.35U mg/Kg
SL-061-SA5B-SS-0.0-0.5(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-062-SA5B-SS-0.0-0.5(RES)	TIN	1.51 mg/Kg	1.51U mg/Kg
SL-064-SA5B-SS-0.0-0.5(RES)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-065-SA5B-SS-0.0-0.5(RES)	TIN	2.08 mg/Kg	2.08U mg/Kg
SL-067-SA5B-SS-0.0-0.5(RES)	TIN	1.39 mg/Kg	1.39U mg/Kg
SL-070-SA5B-SS-0.0-0.5(RES)	TIN	1.26 mg/Kg	1.26U mg/Kg
SL-228-SA5B-SS-0.0-0.5(RES)	TIN	1.91 mg/Kg	1.91U mg/Kg
SL-229-SA5B-SS-0.0-0.5(RES)	TIN	1.59 mg/Kg	1.59U mg/Kg
SL-232-SA5B-SS-0.0-0.5(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-233-SA5B-SS-0.0-0.5(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-299-SA5B-SS-0.0-0.5(RES)	TIN	1.21 mg/Kg	1.21U mg/Kg
SL-300-SA5B-SS-0.0-0.5(RES)	TIN	1.41 mg/Kg	1.41U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-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-017-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.3U ug/Kg
SL-017-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-017-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	4.1U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5MS	2,4,5-TP (Silvex)	0	0	10.00-183.00	-	2,4,5-TP (Silvex)	
SL-008-SA5B-SS-0.0-0.5MSD	2,4-DB	0	-	20.00-170.00	200 (50.00)	2,4-DB	J (all detects)
(SL-008-SA5B-SS-0.0-0.5)	DINOSEB	0	0	1.00-44.00	-	DINOSEB	R (all non-detects)
	MCPP	0	0	16.00-174.00	-	MCPP	

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5MS	ARSENIC	128	165	75.00-125.00	-	ARSENIC	
SL-008-SA5B-SS-0.0-0.5MSD	CADMIUM	129	144	75.00-125.00	-	CADMIUM	
(SL-008-SA5B-SS-0.0-0.5	CHROMIUM	-	154	75.00-125.00	-	CHROMIUM	
SL-009-SA5B-SS-0.0-0.5	COBALT	-	128	75.00-125.00	-	COBALT	
SL-017-SA5C-SB-4.0-5.0	NICKEL	-	139	75.00-125.00	-	NICKEL	
SL-017-SA5C-SB-9.0-10.0	SILVER	-	130	75.00-125.00	-	SILVER	
SL-048-SA5B-SS-0.0-0.5	THALLIUM	-	135	75.00-125.00	-	THALLIUM	
SL-051-SA5B-SS-0.0-0.5	ZINC	375	355	75.00-125.00	-	ZINC	
SL-059-SA5B-SS-0.0-0.5							
SL-061-SA5B-SS-0.0-0.5							
SL-062-SA5B-SS-0.0-0.5							J(all detects)
SL-064-SA5B-SS-0.0-0.5							
SL-065-SA5B-SS-0.0-0.5							Zn No Qual,
SL-067-SA5B-SS-0.0-0.5							>4x
SL-070-SA5B-SS-0.0-0.5							
SL-228-SA5B-SS-0.0-0.5							
SL-229-SA5B-SS-0.0-0.5							
SL-232-SA5B-SS-0.0-0.5							
SL-233-SA5B-SS-0.0-0.5							
SL-299-SA5B-SS-0.0-0.5							
SL-300-SA5B-SS-0.0-0.5)							
SL-008-SA5B-SS-0.0-0.5MS	ANTIMONY	36	27	75.00-125.00	-	ANTIMONY	
SL-008-SA5B-SS-0.0-0.5MSD							
(SL-008-SA5B-SS-0.0-0.5							
SL-009-SA5B-SS-0.0-0.5							
SL-017-SA5C-SB-4.0-5.0							
SL-017-SA5C-SB-9.0-10.0							
SL-048-SA5B-SS-0.0-0.5							
SL-051-SA5B-SS-0.0-0.5							
SL-059-SA5B-SS-0.0-0.5							
SL-061-SA5B-SS-0.0-0.5							
SL-062-SA5B-SS-0.0-0.5							J(all detects)
SL-064-SA5B-SS-0.0-0.5							R(all non-detects)
SL-065-SA5B-SS-0.0-0.5							
SL-067-SA5B-SS-0.0-0.5							
SL-070-SA5B-SS-0.0-0.5							
SL-228-SA5B-SS-0.0-0.5							
SL-229-SA5B-SS-0.0-0.5							
SL-232-SA5B-SS-0.0-0.5							
SL-233-SA5B-SS-0.0-0.5							
SL-299-SA5B-SS-0.0-0.5							
SL-300-SA5B-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_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-008-SA5B-SS-0.0-0.5MS **SL-008-SA5B-SS-0.0-0.5MSD** (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	LEAD	143	226	75.00-125.00	25 (20.00)	LEAD	J(all detects) UJ(all non-detects)
SL-008-SA5B-SS-0.0-0.5MS **SL-008-SA5B-SS-0.0-0.5MSD** (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	MOLYBDENUM	130	151	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-008-SA5B-SS-0.0-0.5MS **SL-008-SA5B-SS-0.0-0.5MSD** (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	BARIUM	194	364	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_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-008-SA5B-SS-0.0-0.5MS	ALUMINUM	902	1684	75.00-125.00	-	ALUMINUM	
SL-008-SA5B-SS-0.0-0.5MSD	IRON	509	2302	75.00-125.00	-	IRON	
(SL-008-SA5B-SS-0.0-0.5	MAGNESIUM	197	318	75.00-125.00	-	MAGNESIUM	
SL-009-SA5B-SS-0.0-0.5	MANGANESE	-	165	75.00-125.00	-	MANGANESE	
SL-017-SA5C-SB-4.0-5.0	PHOSPHORUS	141	-	75.00-125.00	-	PHOSPHORUS	
SL-017-SA5C-SB-9.0-10.0	POTASSIUM	156	145	75.00-125.00	-	POTASSIUM	
SL-048-SA5B-SS-0.0-0.5							
SL-051-SA5B-SS-0.0-0.5							
SL-059-SA5B-SS-0.0-0.5							
SL-061-SA5B-SS-0.0-0.5							
SL-062-SA5B-SS-0.0-0.5							J(all detects)
SL-064-SA5B-SS-0.0-0.5							
SL-065-SA5B-SS-0.0-0.5							Al Fe, Mg, Mn, P No Qual, >4x
SL-067-SA5B-SS-0.0-0.5							
SL-070-SA5B-SS-0.0-0.5							
SL-228-SA5B-SS-0.0-0.5							
SL-229-SA5B-SS-0.0-0.5							
SL-232-SA5B-SS-0.0-0.5							
SL-233-SA5B-SS-0.0-0.5							
SL-299-SA5B-SS-0.0-0.5							
SL-300-SA5B-SS-0.0-0.5)							
SL-008-SA5B-SS-0.0-0.5MS	CALCIUM	-7886	-6941	75.00-125.00	32 (20.00)	CALCIUM	
SL-008-SA5B-SS-0.0-0.5MSD	STRONTIUM	-127	-88	75.00-125.00	24 (20.00)	STRONTIUM	
(SL-008-SA5B-SS-0.0-0.5							
SL-009-SA5B-SS-0.0-0.5							
SL-017-SA5C-SB-4.0-5.0							J(all detects) UJ(all non-detects)
SL-017-SA5C-SB-9.0-10.0							
SL-048-SA5B-SS-0.0-0.5							Ca No Qual %R, >4x
SL-051-SA5B-SS-0.0-0.5							
SL-059-SA5B-SS-0.0-0.5							
SL-061-SA5B-SS-0.0-0.5							J(all detects) R(all non-detects)
SL-062-SA5B-SS-0.0-0.5							
SL-064-SA5B-SS-0.0-0.5							Sr only
SL-065-SA5B-SS-0.0-0.5							
SL-067-SA5B-SS-0.0-0.5							
SL-070-SA5B-SS-0.0-0.5							
SL-228-SA5B-SS-0.0-0.5							
SL-229-SA5B-SS-0.0-0.5							
SL-232-SA5B-SS-0.0-0.5							
SL-233-SA5B-SS-0.0-0.5							
SL-299-SA5B-SS-0.0-0.5							
SL-300-SA5B-SS-0.0-0.5)							

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5C-SB-4.0-5.0MSD	Butylbenzylphthalate	-	-	73.00-140.00	42 (30.00)	Butylbenzylphthalate	J(all detects)
(SL-017-SA5C-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	-	-	48.00-113.00	31 (30.00)	N-NITROSODIMETHYLAMINE	
SL-017-SA5C-SB-4.0-5.0MS	BENZO(G,H,I)PERYLENE	32	-	33.00-141.00	-	BENZO(G,H,I)PERYLENE	J(all detects) UJ(all non-detects)
(SL-017-SA5C-SB-4.0-5.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: DE034_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-017-SA5C-SB-4.0-5.0MSD (SL-017-SA5C-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	44 (30.00)	2,4-DINITROPHENOL	J(all detects)
SL-017-SA5C-SB-4.0-5.0MS SL-017-SA5C-SB-4.0-5.0MSD (SL-017-SA5C-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA5C-SB-4.0-5.0MS SL-017-SA5C-SB-4.0-5.0MSD (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-017-SA5C-SB-4.0-5.0 SL-017-SA5C-SB-9.0-10.0 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	TITANIUM	302	338	75.00-125.00	-	TITANIUM	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-062-SA5B-SS-0.0-0.5MS (SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	FLUORIDE	67	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: DE034_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA5B-SS-0.0-0.5DUP	CALCIUM	125	20.00	
(SL-008-SA5B-SS-0.0-0.5	STRONTIUM	143	20.00	
SL -009-SA5B-SS-0.0-0.5	Zirconium	32	20.00	
SL -017-SA5C-SB-4.0-5.0				
SL -017-SA5C-SB-9.0-10.0				
SL -048-SA5B-SS-0.0-0.5				
SL -051-SA5B-SS-0.0-0.5				
SL -059-SA5B-SS-0.0-0.5				
SL -061-SA5B-SS-0.0-0.5				
SL -062-SA5B-SS-0.0-0.5				J (all detects)
SL -064-SA5B-SS-0.0-0.5				UJ (all non-detects)
SL -065-SA5B-SS-0.0-0.5				
SL -067-SA5B-SS-0.0-0.5				Zr No Qual
SL -070-SA5B-SS-0.0-0.5				Ok by difference
SL -228-SA5B-SS-0.0-0.5				
SL -229-SA5B-SS-0.0-0.5				
SL -232-SA5B-SS-0.0-0.5				
SL -233-SA5B-SS-0.0-0.5				
SL -299-SA5B-SS-0.0-0.5				
SL -300-SA5B-SS-0.0-0.5)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA5B-SS-0.0-0.5DUP	ANTIMONY	82	20.00	
(SL-008-SA5B-SS-0.0-0.5	SELENIUM	38	20.00	
SL -009-SA5B-SS-0.0-0.5	THALLIUM	34	20.00	
SL -017-SA5C-SB-4.0-5.0	VANADIUM	25	20.00	
SL -017-SA5C-SB-9.0-10.0				
SL -048-SA5B-SS-0.0-0.5				
SL -051-SA5B-SS-0.0-0.5				
SL -059-SA5B-SS-0.0-0.5				
SL -061-SA5B-SS-0.0-0.5				
SL -062-SA5B-SS-0.0-0.5				J(all detects)
SL -064-SA5B-SS-0.0-0.5				UJ(all non-detects)
SL -065-SA5B-SS-0.0-0.5				
SL -067-SA5B-SS-0.0-0.5				Sb, Se, Tl
SL -070-SA5B-SS-0.0-0.5				No Qual
SL -228-SA5B-SS-0.0-0.5				OK by difference
SL -229-SA5B-SS-0.0-0.5				
SL -232-SA5B-SS-0.0-0.5				
SL -233-SA5B-SS-0.0-0.5				
SL -299-SA5B-SS-0.0-0.5				
SL -300-SA5B-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-008-SA5B-SS-0.0-0.5DUP (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	MERCURY	43	20.00	No Qual OK by difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-051-SA5B-SS-0.0-0.5DUP (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	36	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-062-SA5B-SS-0.0-0.5DUP (SL-059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	FLUORIDE	42	20.00	No Qual OK by difference

Method: 314.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5B-SS-0.0-0.5DUP (SL-009-SA5B-SS-0.0-0.5 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5)	PERCHLORATE	200	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: PrepDE034_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
P03495AQ240304A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	DICHLOROPROP	144	-	60.00-141.00	-	DICHLOROPROP	J (all detects)
P03495AQ240304A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-061-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03501AQ241924A (SL-008-SA5B-SS-0.0-0.5 SL-009-SA5B-SS-0.0-0.5 SL-048-SA5B-SS-0.0-0.5 SL-051-SA5B-SS-0.0-0.5 SL-059-SA5B-SS-0.0-0.5 SL-062-SA5B-SS-0.0-0.5 SL-064-SA5B-SS-0.0-0.5 SL-065-SA5B-SS-0.0-0.5 SL-067-SA5B-SS-0.0-0.5 SL-228-SA5B-SS-0.0-0.5 SL-229-SA5B-SS-0.0-0.5 SL-232-SA5B-SS-0.0-0.5 SL-233-SA5B-SS-0.0-0.5 SL-299-SA5B-SS-0.0-0.5 SL-300-SA5B-SS-0.0-0.5)	4,4'-DDT METHOXYCHLOR	134 141	- -	54.00-130.00 59.00-125.00	- -	4,4'-DDT METHOXYCHLOR	J(all detects)
P03519AQ241754A (SL-061-SA5B-SS-0.0-0.5 SL-070-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_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
P34926CQ221432A (SL-008-SA5B-SS-0.0-0.5 SL -009-SA5B-SS-0.0-0.5 SL -017-SA5C-SB-4.0-5.0 SL -017-SA5C-SB-9.0-10.0 SL -048-SA5B-SS-0.0-0.5 SL -051-SA5B-SS-0.0-0.5 SL -059-SA5B-SS-0.0-0.5 SL -061-SA5B-SS-0.0-0.5 SL -062-SA5B-SS-0.0-0.5 SL -064-SA5B-SS-0.0-0.5 SL -065-SA5B-SS-0.0-0.5 SL -067-SA5B-SS-0.0-0.5 SL -070-SA5B-SS-0.0-0.5 SL -228-SA5B-SS-0.0-0.5 SL -229-SA5B-SS-0.0-0.5 SL -232-SA5B-SS-0.0-0.5 SL -233-SA5B-SS-0.0-0.5 SL -299-SA5B-SS-0.0-0.5 SL -300-SA5B-SS-0.0-0.5)	ANTIMONY	50	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: PrepDE034_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-008-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	302	20.00-120.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-048-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-051-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	135	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-064-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 Laboratory: LL

EDD Filename: DE034_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5B-SS-0.0-0.5	FLUORIDE	J	0.95	1.1	PQL	mg/Kg	J (all detects)
SL-017-SA5C-SB-9.0-10.0	Nitrate-NO3	J	0.96	1.7	PQL	mg/Kg	J (all detects)
SL-048-SA5B-SS-0.0-0.5	FLUORIDE	J	0.98	1.1	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5B-SS-0.0-0.5	PERCHLORATE	J	21.3	32.1	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.59 1.35	10.2 5.08	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-009-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.92 2.33	10.5 5.25	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-017-SA5C-SB-4.0-5.0	SODIUM TIN Zirconium	J J J	105 1.77 2.11	108 10.8 5.38	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-017-SA5C-SB-9.0-10.0	TIN Zirconium	J J	2.56 1.55	10.9 5.43	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-048-SA5B-SS-0.0-0.5	SODIUM TIN	J J	80.4 3.11	109 10.9	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	TIN Zirconium	J J	2.10 2.28	11.1 5.55	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-059-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.35 3.57	11.5 5.74	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-061-SA5B-SS-0.0-0.5	TIN Zirconium	J J	2.04 3.33	11.1 5.56	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-062-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.51 2.72	11.2 5.62	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.79 2.11	10.8 5.38	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-065-SA5B-SS-0.0-0.5	TIN Zirconium	J J	2.08 2.10	10.9 5.46	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.39 1.83	10.7 5.33	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-070-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.26 3.14	11.7 5.83	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	SODIUM TIN Zirconium	J J J	72.1 1.91 1.27	135 13.5 6.76	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	TIN Zirconium	J J	1.59 2.55	11.3 5.64	PQL PQL	mg/Kg mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA5B-SS-0.0-0.5	TIN	J	2.06	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.22	5.65	PQL	mg/Kg	
SL-233-SA5B-SS-0.0-0.5	TIN	J	1.99	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.70	5.51	PQL	mg/Kg	
SL-299-SA5B-SS-0.0-0.5	TIN	J	1.21	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.16	5.68	PQL	mg/Kg	
SL-300-SA5B-SS-0.0-0.5	TIN	J	1.41	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.15	5.97	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	ANTIMONY	J	0.149	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.415	PQL	mg/Kg	
	SILVER	J	0.0612	0.104	PQL	mg/Kg	
SL-009-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0834	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.223	0.424	PQL	mg/Kg	
SL-017-SA5C-SB-4.0-5.0	SELENIUM	J	0.113	0.443	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0486	0.111	PQL	mg/Kg	
SL-017-SA5C-SB-9.0-10.0	CADMIUM	J	0.0750	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0439	0.439	PQL	mg/Kg	
	SILVER	J	0.0371	0.110	PQL	mg/Kg	
SL-048-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0697	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0943	0.451	PQL	mg/Kg	
	SILVER	J	0.0230	0.113	PQL	mg/Kg	
SL-051-SA5B-SS-0.0-0.5	ANTIMONY	J	0.127	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.164	0.444	PQL	mg/Kg	
	SILVER	J	0.0263	0.111	PQL	mg/Kg	
SL-059-SA5B-SS-0.0-0.5	SELENIUM	J	0.223	0.446	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0325	0.111	PQL	mg/Kg	
SL-061-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0703	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.221	0.449	PQL	mg/Kg	
	SILVER	J	0.0260	0.112	PQL	mg/Kg	
SL-062-SA5B-SS-0.0-0.5	SELENIUM	J	0.344	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0359	0.112	PQL	mg/Kg	
SL-064-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0771	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.187	0.443	PQL	mg/Kg	
	SILVER	J	0.0352	0.111	PQL	mg/Kg	
SL-065-SA5B-SS-0.0-0.5	SELENIUM	J	0.178	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0392	0.107	PQL	mg/Kg	
SL-067-SA5B-SS-0.0-0.5	SELENIUM	J	0.148	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0257	0.108	PQL	mg/Kg	
SL-070-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0788	0.231	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.243	0.462	PQL	mg/Kg	
	SILVER	J	0.0307	0.115	PQL	mg/Kg	
SL-228-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0967	0.273	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.546	PQL	mg/Kg	
	SILVER	J	0.0297	0.137	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA5B-SS-0.0-0.5	ANTIMONY	J	0.104	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.162	0.451	PQL	mg/Kg	
	SILVER	J	0.0404	0.113	PQL	mg/Kg	
SL-232-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0843	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.244	0.447	PQL	mg/Kg	
	SILVER	J	0.0305	0.112	PQL	mg/Kg	
SL-233-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0837	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.217	0.450	PQL	mg/Kg	
	SILVER	J	0.0386	0.112	PQL	mg/Kg	
SL-299-SA5B-SS-0.0-0.5	SELENIUM	J	0.258	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0302	0.115	PQL	mg/Kg	
SL-300-SA5B-SS-0.0-0.5	SELENIUM	J	0.229	0.464	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0190	0.116	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-017-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.71	1.1	PQL	mg/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-070-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.2	PQL	mg/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.4	PQL	mg/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.2	PQL	mg/Kg	J (all detects)
SL-233-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	MERCURY	J	0.0126	0.0969	PQL	mg/Kg	J (all detects)
SL-009-SA5B-SS-0.0-0.5	MERCURY	J	0.0138	0.105	PQL	mg/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	MERCURY	J	0.0352	0.111	PQL	mg/Kg	J (all detects)
SL-061-SA5B-SS-0.0-0.5	MERCURY	J	0.0175	0.111	PQL	mg/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	MERCURY	J	0.0124	0.111	PQL	mg/Kg	J (all detects)
SL-065-SA5B-SS-0.0-0.5	MERCURY	J	0.0106	0.110	PQL	mg/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	MERCURY	J	0.0071	0.104	PQL	mg/Kg	J (all detects)
SL-070-SA5B-SS-0.0-0.5	MERCURY	J	0.0090	0.110	PQL	mg/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	MERCURY	J	0.0087	0.134	PQL	mg/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	MERCURY	J	0.0185	0.106	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA5B-SS-0.0-0.5	MERCURY	J	0.0050	0.107	PQL	mg/Kg	J (all detects)
SL-233-SA5B-SS-0.0-0.5	MERCURY	J	0.0066	0.113	PQL	mg/Kg	J (all detects)
SL-300-SA5B-SS-0.0-0.5	MERCURY	J	0.0053	0.117	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA5C-SB-4.0-5.0	ETHANOL	J	240	550	PQL	ug/Kg	J (all detects)
SL-017-SA5C-SB-9.0-10.0	ETHANOL	J	230	560	PQL	ug/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.064	0.17	PQL	ug/Kg	J (all detects)
SL-062-SA5B-SS-0.0-0.5	4,4'-DDE 4,4'-DDT	J J	0.088 0.29	0.40 0.40	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-070-SA5B-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.11	0.20	PQL	ug/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	BETA-BHC METHOXYCHLOR	J J	0.12 0.96	0.19 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-299-SA5B-SS-0.0-0.5	4,4'-DDT ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE	J J J	0.14 0.10 0.074	0.39 0.39 0.19	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)
SL-009-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	0.86 1.4	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-048-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.6	1.9	PQL	ug/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	AROCLOR 1260	J	7.7	9.4	PQL	ug/Kg	J (all detects)
SL-059-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.90	2.0	PQL	ug/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.6	3.7	PQL	ug/Kg	J (all detects)
SL-065-SA5B-SS-0.0-0.5	AROCLOR 1260	J	3.1	3.8	PQL	ug/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.73	1.8	PQL	ug/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	AROCLOR 1248 Aroclor 5460	J J	1.9 1.6	2.0 3.8	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-233-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	3.4 3.2	3.9 7.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-300-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	1.2 1.0	2.1 2.1	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA5B-SS-0.0-0.5	DICAMBA	J	0.47	1.4	PQL	ug/Kg	J (all detects)
SL-051-SA5B-SS-0.0-0.5	MCPA MCPP	J J	170 200	280 280	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-059-SA5B-SS-0.0-0.5	2,4-DB	J	0.89	2.0	PQL	ug/Kg	J (all detects)
SL-061-SA5B-SS-0.0-0.5	MCPA	J	110	290	PQL	ug/Kg	J (all detects)
SL-228-SA5B-SS-0.0-0.5	2,4-DB	J	1.0	2.3	PQL	ug/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	MCPP	J	180	280	PQL	ug/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	2,4-DB MCPA	J J	1.0 200	2.0 290	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-233-SA5B-SS-0.0-0.5	MCPA	J	190	280	PQL	ug/Kg	J (all detects)
SL-299-SA5B-SS-0.0-0.5	MCPA	J	150	290	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.1 0.11	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-017-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	0.97	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	22	170	PQL	ug/Kg	J (all detects)
SL-017-SA5C-SB-4.0-5.0	3,5-Dimethylphenol	J	130	180	PQL	ug/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	58	190	PQL	ug/Kg	J (all detects)
SL-067-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE CHRYSENE PYRENE	J J J J J J	97 240 130 120 330 98	900 900 900 900 900 900	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-228-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	65	230	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	54	230	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	82	230	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	44	230	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	36	230	PQL	ug/Kg	
	CHRYSENE	J	88	230	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	30	230	PQL	ug/Kg	
	Di-n-butylphthalate	J	26	230	PQL	ug/Kg	
	FLUORANTHENE	J	160	230	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	230	PQL	ug/Kg	
	PHENANTHRENE	J	79	230	PQL	ug/Kg	
	PYRENE	J	180	230	PQL	ug/Kg	
SL-232-SA5B-SS-0.0-0.5	CHRYSENE	J	21	190	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.83	1.7	PQL	ug/Kg	
	FLUORENE	J	1.6	1.7	PQL	ug/Kg	
SL-009-SA5B-SS-0.0-0.5	ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.82	1.8	PQL	ug/Kg	
SL-017-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	9.9	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.82	1.8	PQL	ug/Kg	
SL-017-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	20	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	6.9	20	PQL	ug/Kg	
SL-048-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	14	20	PQL	ug/Kg	
SL-051-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	8.6	20	PQL	ug/Kg	
	CHRYSENE	J	0.92	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	19	20	PQL	ug/Kg	
	FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	
	PYRENE	J	0.95	1.8	PQL	ug/Kg	
SL-059-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
SL-061-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	16	21	PQL	ug/Kg	
	CHRYSENE	J	0.68	1.9	PQL	ug/Kg	
SL-062-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	J (all detects)
SL-064-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.8	20	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	PYRENE	J	1.1	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE034 **Laboratory: LL**

EDD Filename: DE034_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-065-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.3	20	PQL	ug/Kg	
	CHRYSENE	J	0.60	1.8	PQL	ug/Kg	
SL-067-SA5B-SS-0.0-0.5	ANTHRACENE	J	2.0	9.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	97	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.2	9.0	PQL	ug/Kg	
SL-070-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.59	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	21	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.5	2.0	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.5	21	PQL	ug/Kg	
SL-228-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	25	PQL	ug/Kg	J (all detects)
SL-229-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-232-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	PYRENE	J	0.90	1.9	PQL	ug/Kg	
SL-233-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.85	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.90	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.4	20	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.1	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-299-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.99	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	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
SL-300-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.6	2.0	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	11	22	PQL	ug/Kg	

LDC #: 25337F4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-4-11
SDG #: DE034 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: M
2nd Reviewer: A

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

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

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

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

Validated Samples: Soil

1	SL-017-SA5C-SB-4.0-5.0	11	SL-232-SA5B-SS-0.0-0.5	21	(X3) MSD 1 DUP	31	
2	SL-017-SA5C-SB-9.0-10.0	12	SL-233-SA5B-SS-0.0-0.5	22		32	
3	SL-008-SA5B-SS-0.0-0.5	13	SL-299-SA5B-SS-0.0-0.5	23		33	
4	SL-009-SA5B-SS-0.0-0.5	14	SL-300-SA5B-SS-0.0-0.5	24		34	
5	SL-228-SA5B-SS-0.0-0.5	15	SL-067-SA5B-SS-0.0-0.5	25		35	
6	SL-229-SA5B-SS-0.0-0.5	16	SL-059-SA5B-SS-0.0-0.5	26		36	
7	SL-048-SA5B-SS-0.0-0.5	17	SL-065-SA5B-SS-0.0-0.5	27		37	
8	SL-051-SA5B-SS-0.0-0.5	18	SL-061-SA5B-SS-0.0-0.5	28		38	
9	SL-062-SA5B-SS-0.0-0.5	19	SL-070-SA5B-SS-0.0-0.5	29		39	
10	SL-064-SA5B-SS-0.0-0.5	20	(X3) MS	30		40	

Notes: _____

LDC #: 25337F4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: A

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICPMS: 2xdil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

			Sample Identification															
Analyte	**Maximum ICB/CCB* (ug/L)**	**Blank Action Limit**	3	4	5	6	7	8	10	11	12	18	19					
Sb	0.42	0.42	0.15	0.083	0.097	0.10	0.070	0.13	0.077	0.084	0.084	0.070	0.079					

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE034
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6162905BKG Serial Dilution Lab Sample ID: 6162905L
Batch ID(s): P34908C, P34926C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		86114.4700		79924.2500		7		P
Antimony	121	0.7182	B	1.5000	U	100		MS
Arsenic	75	20.9200		19.0950		9		MS
Barium	137	483.2000		457.1000		5		MS
Beryllium	9	1.3750		1.4635	B	6		MS
Boron		84.2000		106.2500	B	26		P
Cadmium	111	0.8659		1.1120	B	28		MS
Calcium		408833.5400		411099.6000		1		P
Chromium	52	77.0900		77.1500		0		MS
Cobalt	59	25.7300		26.7050		4		MS
Copper	63	53.9300		55.4000		3		MS
Iron		144430.1200		137842.1500		5		P
Lead	208	24.7300		23.0750		7		MS
Lithium		123.7900		131.8500		7		P
Magnesium		41744.7400		41060.3000		2		P
Manganese		2157.4900		2216.2500		3		P
Molybdenum	98	3.9320		3.5825		9		MS
Nickel	60	44.7900		47.8400		7		MS
Phosphorus		5203.2200		5206.7500		0		P
Potassium		22569.7900		22729.5500		1		P
Selenium	78	0.6120	B	1.0000	U	100		MS
Silver	107	0.2955	B	0.3641	B	23		MS
Sodium		2883.9500		2747.1500	B	5		P
Strontium		2661.0700		2615.1000		2		P
Thallium	203	0.8330		0.7500	U	100		MS
Tin		15.6100	B	50.0000	U	100		P
Vanadium	51	124.8000		147.4500		18	E	MS
Zinc	66	378.7000		343.3500		9		MS
Zirconium		13.3100	B	42.0000	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.

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

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3050B	6010B	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3050B	6020	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3060A	7199	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8081A	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8082	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8151A	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8270C	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	3550B	8270C SIM	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	Gen Prep	9045M	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	METHOD	300.0	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	METHOD	314.0	III
10-Dec-2010	SL-290-SA5B-SS-0.0-0.5	6162947	N	METHOD	7471A	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3050B	6010B	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3050B	6020	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3060A	7199	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8081A	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8082	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8151A	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8270C	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	3550B	8270C SIM	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	E300.0	314.0	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	Gen Prep	9045M	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	METHOD	300.0	III
10-Dec-2010	DUP03-SA5B-QC-121010	6162948	FD	METHOD	7471A	III
10-Dec-2010	DUP03-SA5B-QC-121010DUP	P162948D270129A	DUP	E300.0	314.0	III
10-Dec-2010	DUP03-SA5B-QC-121010MS	P162948R270153A	MS	E300.0	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
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3050B	6010B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3050B	6020	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3060A	7199	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3546	1625C	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8015B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8015M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8082	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8270C	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	3550B	8270C SIM	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	5035	8015M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	5035	8260B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	5035	8260B SIM	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	8330	8330A	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	Gen Prep	9045M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	300.0	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	314.0	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	7471A	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	8015B	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	8015M	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	8315A	III
10-Dec-2010	SL-011-SA5C-SB-4.0-5.0	6162941	N	METHOD	9012B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3060A	7199	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8081A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8151A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8270C	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	3550B	8270C SIM	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	Gen Prep	9045M	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	METHOD	314.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5	6162943	N	METHOD	7471A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3060A	7199	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8081A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8082	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8151A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8270C	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	3550B	8270C SIM	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	METHOD	314.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	6162944	MS	METHOD	7471A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8081A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8082	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8151A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8270C	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	3550B	8270C SIM	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MSD	6162945	MSD	METHOD	7471A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	3050B	6010B	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	3050B	6020	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	3060A	7199	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	6162946	DUP	METHOD	314.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP.	6162946	DUP	METHOD	7471A	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5DUP	P162943D270019A	DUP	METHOD	300.0	III
10-Dec-2010	SL-288-SA5B-SS-0.0-0.5MS	P162943R270033A	MS	METHOD	300.0	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3050B	6010B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3050B	6020	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3060A	7199	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3546	1625C	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8015B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8015M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8082	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8270C	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	3550B	8270C SIM	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	5035	8015M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	5035	8260B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	5035	8260B SIM	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	8330	8330A	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	Gen Prep	9045M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	300.0	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	314.0	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	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
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	8015B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	8015M	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	8315A	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0	6162942	N	METHOD	9012B	III
10-Dec-2010	SL-011-SA5C-SB-9.0-10.0MS	P162942R321751A	MS	3550B	8015M	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3050B	6010B	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3050B	6020	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3060A	7199	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8081A	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8082	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8151A	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8270C	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	3550B	8270C SIM	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	Gen Prep	314.0	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	Gen Prep	9045M	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	METHOD	300.0	III
10-Dec-2010	SL-287-SA5B-SS-0.0-0.5	6162956	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3050B	6010B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3050B	6020	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3060A	7199	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3546	1625C	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8015B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8015M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8082	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8270C	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	5035	8015M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	5035	8260B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	5035	8260B SIM	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	8330	8330A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	E300.0	314.0	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	Gen Prep	9045M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	300.0	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	8015B	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	8015M	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	8315A	III
10-Dec-2010	SL-010-SA5C-SB-4.0-5.0	6162949	N	METHOD	9012B	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3050B	6010B	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3050B	6020	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3060A	7199	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8081A	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8082	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8151A	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8270C	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	3550B	8270C SIM	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	Gen Prep	314.0	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	Gen Prep	9045M	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	METHOD	300.0	III
10-Dec-2010	SL-235-SA5B-SS-0.0-0.5	6162955	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3050B	6010B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	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
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3060A	7199	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3546	1625C	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8015B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8015M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8082	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8270C	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	3550B	8270C SIM	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	5035	8015M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	5035	8260B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	5035	8260B SIM	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	8330	8330A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	E300.0	314.0	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	Gen Prep	9045M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	300.0	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	7471A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	8015B	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	8015M	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	8315A	III
10-Dec-2010	SL-010-SA5C-SB-9.0-10.0	6162950	N	METHOD	9012B	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3050B	6010B	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3050B	6020	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3060A	7199	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8081A	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8082	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8151A	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	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
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	3550B	8270C SIM	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	E300.0	314.0	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	Gen Prep	9045M	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	METHOD	300.0	III
10-Dec-2010	SL-057-SA5B-SS-0.0-0.5	6162953	N	METHOD	7471A	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3050B	6010B	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3050B	6020	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3060A	7199	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8081A	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8082	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8151A	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8270C	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	3550B	8270C SIM	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	Gen Prep	314.0	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	Gen Prep	9045M	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	METHOD	300.0	III
10-Dec-2010	SL-234-SA5B-SS-0.0-0.5	6162954	N	METHOD	7471A	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3050B	6010B	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3050B	6020	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3060A	7199	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3550B	8082	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3550B	8270C	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	3550B	8270C SIM	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	5035	8260B	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	5035	8260B SIM	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	E300.0	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
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	Gen Prep	9045M	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	METHOD	300.0	III
10-Dec-2010	SL-008-SA5C-SB-4.0-5.0	6162951	N	METHOD	7471A	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3050B	6010B	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3050B	6020	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3060A	7199	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3550B	8082	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3550B	8270C	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	3550B	8270C SIM	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	E300.0	314.0	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	Gen Prep	9045M	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	METHOD	300.0	III
10-Dec-2010	SL-008-SA5C-SB-8.0-9.0	6162952	N	METHOD	7471A	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3050B	6010B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3050B	6020	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3060A	7199	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3546	1625C	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8015B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8015M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8082	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8270C	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	3550B	8270C SIM	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	5035	8015M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	5035	8260B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	5035	8260B SIM	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	8330	8330A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	E300.0	314.0	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	300.0	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	7471A	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	8015B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	8015M	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	8315A	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0	6162959	N	METHOD	9012B	III
10-Dec-2010	SL-009-SA5C-SB-4.0-5.0DUP	P162959D291400A	DUP	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3050B	6010B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3050B	6020	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3060A	7199	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3546	1625C	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8015B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8015M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8082	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8270C	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	3550B	8270C SIM	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	5035	8015M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	5035	8260B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	5035	8260B SIM	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	8330	8330A	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	E300.0	314.0	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	Gen Prep	9045M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	300.0	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	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
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	8015B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	8015M	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	8315A	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0	6162960	N	METHOD	9012B	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0DU	P162960D270338B	DUP	METHOD	300.0	III
10-Dec-2010	SL-009-SA5C-SB-9.0-10.0MS	P162960R270352B	MS	METHOD	300.0	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3050B	6010B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3050B	6020	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3060A	7199	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3546	1625C	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8015B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8015M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8082	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8270C	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	3550B	8270C SIM	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	5035	8015M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	5035	8260B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	5035	8260B SIM	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	8330	8330A	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	Gen Prep	314.0	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	Gen Prep	9045M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	300.0	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	7471A	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	8015B	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	8015M	III
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	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
10-Dec-2010	SL-005-SA5C-SB-4.0-5.0	6162957	N	METHOD	9012B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3050B	6010B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3050B	6020	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3060A	7199	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3546	1625C	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8015B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8015M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8082	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8270C	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	3550B	8270C SIM	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	5035	8015M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	5035	8260B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	5035	8260B SIM	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	8330	8330A	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	E300.0	314.0	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	Gen Prep	9045M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	300.0	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	7471A	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	8015B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	8015M	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	8315A	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0	6162958	N	METHOD	9012B	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0DU	P162958D270642B	DUP	E300.0	314.0	III
10-Dec-2010	SL-005-SA5C-SB-9.0-10.0MS	P162958R270706B	MS	E300.0	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: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	4.8		0.91	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.88	U	0.88	MDL	1.6	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.88	U	0.88	MDL	1.7	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	3.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	2.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Method Category: GENCHEM

Method: 9012B **Matrix:** SO

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.21	U	0.21	MDL	0.57	PQL	mg/Kg	UJ	H

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.54	PQL	mg/Kg	UJ	H

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.18	U	0.18	MDL	0.51	PQL	mg/Kg	UJ	H

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.20	U	0.20	MDL	0.55	PQL	mg/Kg	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 9012B **Matrix:** SO

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.20	U	0.20	MDL	0.55	PQL	mg/Kg	UJ	H

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.53	PQL	mg/Kg	UJ	H

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.54	PQL	mg/Kg	UJ	H

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CYANIDE	0.19	U	0.19	MDL	0.53	PQL	mg/Kg	UJ	H

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 9:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.03	J	0.882	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 9:05:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	291		0.395	MDL	1.04	PQL	mg/Kg	J	Q

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
ALUMINUM	3240		5.28	MDL	21.0	PQL	mg/Kg	J	E
BORON	2.88	J	0.935	MDL	5.25	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
CALCIUM	8080		6.44	MDL	21.0	PQL	mg/Kg	J	E
MANGANESE	105		0.0819	MDL	0.525	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	357		0.588	MDL	10.5	PQL	mg/Kg	J	Q
SODIUM	54.3	J	39.2	MDL	105	PQL	mg/Kg	J	Z
TIN	1.80	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.74	J	0.940	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1430		0.438	MDL	1.15	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26300		5.63	MDL	22.4	PQL	mg/Kg	J	E
CALCIUM	54500		6.86	MDL	22.4	PQL	mg/Kg	J	E
MANGANESE	354		0.0872	MDL	0.559	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	465		0.626	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.19	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.06	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1100		0.402	MDL	1.06	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12700		5.37	MDL	21.4	PQL	mg/Kg	J	E
CALCIUM	3520		6.55	MDL	21.4	PQL	mg/Kg	J	E
MANGANESE	229		0.0833	MDL	0.534	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	395		0.598	MDL	10.7	PQL	mg/Kg	J	Q
TIN	1.92	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.77	J	0.957	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1710		0.416	MDL	1.10	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	29800		5.73	MDL	22.8	PQL	mg/Kg	J	E
CALCIUM	9770		6.98	MDL	22.8	PQL	mg/Kg	J	E
MANGANESE	350		0.0889	MDL	0.570	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	253		0.638	MDL	11.4	PQL	mg/Kg	J	Q
TIN	2.70	J	1.14	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1210		0.412	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	22600		5.45	MDL	21.7	PQL	mg/Kg	J	E
BORON	5.01	J	0.965	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1510		6.65	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	165		0.0846	MDL	0.542	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	181		0.607	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	89.6	J	40.4	MDL	108	PQL	mg/Kg	J	Z
TIN	2.74	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.67	J	0.881	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1290		0.398	MDL	1.05	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11400		5.27	MDL	21.0	PQL	mg/Kg	J	E
CALCIUM	3550		6.43	MDL	21.0	PQL	mg/Kg	J	E
MANGANESE	273		0.0818	MDL	0.524	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	437		0.587	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.06	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.33	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1230		0.417	MDL	1.10	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA5C-SB-9.0-10.0 ***Collected:*** 12/10/2010 2:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15200		5.46	MDL	21.7	PQL	mg/Kg	J	E
CALCIUM	3850		6.66	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	282		0.0847	MDL	0.543	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	324		0.608	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.46	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-010-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 10:54:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.94	J	0.940	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 10:54:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1330		0.417	MDL	1.10	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 10:54:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	18200		5.63	MDL	22.4	PQL	mg/Kg	J	E
CALCIUM	6100		6.86	MDL	22.4	PQL	mg/Kg	J	E
MANGANESE	310		0.0873	MDL	0.560	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	338		0.627	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.55	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-010-SA5C-SB-9.0-10.0 ***Collected:*** 12/10/2010 11:03:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.48	J	0.911	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 ***Collected:*** 12/10/2010 11:03:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1220		0.412	MDL	1.08	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-010-SA5C-SB-9.0-10.0 **Collected:** 12/10/2010 11:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15700		5.45	MDL	21.7	PQL	mg/Kg	J	E
CALCIUM	3780		6.65	MDL	21.7	PQL	mg/Kg	J	E
MANGANESE	259		0.0846	MDL	0.542	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	389		0.607	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.58	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-011-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 9:39:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	0.930	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 9:39:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1170		0.418	MDL	1.10	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 9:39:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14500		5.43	MDL	21.6	PQL	mg/Kg	J	E
CALCIUM	3650		6.61	MDL	21.6	PQL	mg/Kg	J	E
MANGANESE	253		0.0841	MDL	0.539	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	296		0.604	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.43	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-011-SA5C-SB-9.0-10.0 **Collected:** 12/10/2010 9:45:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1120		0.411	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-9.0-10.0 **Collected:** 12/10/2010 9:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11400		5.23	MDL	20.8	PQL	mg/Kg	J	E
CALCIUM	3630		6.38	MDL	20.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-011-SA5C-SB-9.0-10.0 **Collected:** 12/10/2010 9:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	251		0.0812	MDL	0.520	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	376		0.583	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.21	J	1.04	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-057-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 11:20:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.09	J	0.945	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 11:20:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	67300		13.8	MDL	45.0	PQL	mg/Kg	J	E

Sample ID: SL-057-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 11:20:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1450		0.432	MDL	1.14	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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
ALUMINUM	24900		5.66	MDL	22.5	PQL	mg/Kg	J	E
MANGANESE	345		0.0877	MDL	0.562	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	560		0.630	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.41	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-234-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 11:20:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.78	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 11:20:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1340		0.416	MDL	1.09	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
ALUMINUM	15400		5.40	MDL	21.5	PQL	mg/Kg	J	E
CALCIUM	5650		6.58	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	274		0.0837	MDL	0.536	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	694		0.601	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	106	J	40.0	MDL	107	PQL	mg/Kg	J	Z
TIN	2.16	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
Zirconium	1.09	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1390		0.411	MDL	1.08	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
ALUMINUM	13700		5.29	MDL	21.0	PQL	mg/Kg	J	E
CALCIUM	9690		6.44	MDL	21.0	PQL	mg/Kg	J	E
MANGANESE	289		0.0820	MDL	0.525	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	503		0.588	MDL	10.5	PQL	mg/Kg	J	Q
SODIUM	86.4	J	39.2	MDL	105	PQL	mg/Kg	J	Z
TIN	2.31	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.22	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:55:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	821		0.395	MDL	1.04	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
ALUMINUM	8050		5.33	MDL	21.2	PQL	mg/Kg	J	E
BORON	4.78	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
CALCIUM	4300		6.50	MDL	21.2	PQL	mg/Kg	J	E
MANGANESE	215		0.0827	MDL	0.530	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	362		0.594	MDL	10.6	PQL	mg/Kg	J	Q
SODIUM	66.7	J	39.5	MDL	106	PQL	mg/Kg	J	Z
TIN	1.99	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
Zirconium	2.52	J	0.852	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	310		0.378	MDL	0.995	PQL	mg/Kg	J	Q

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	3760		5.10	MDL	20.3	PQL	mg/Kg	J	E
BORON	3.02	J	0.903	MDL	5.07	PQL	mg/Kg	J	Z
CALCIUM	7300		6.22	MDL	20.3	PQL	mg/Kg	J	E
MANGANESE	104		0.0791	MDL	0.507	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	320		0.568	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	51.4	J	37.8	MDL	101	PQL	mg/Kg	J	Z
TIN	1.85	J	1.01	MDL	10.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.03	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:45:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	869		0.388	MDL	1.02	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
ALUMINUM	10200		5.40	MDL	21.5	PQL	mg/Kg	J	E
CALCIUM	4250		6.58	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	171		0.0837	MDL	0.536	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	603		0.601	MDL	10.7	PQL	mg/Kg	J	Q
TIN	1.46	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 9:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z, Q

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 9:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.826		0.0515	MDL	0.103	PQL	mg/Kg	J	Q, E

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 9:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	24.2		0.111	MDL	0.412	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 ***Collected:*** 12/10/2010 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	0.123	J	0.0618	MDL	0.206	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	3.76		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
BERYLLIUM	0.149		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.110		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	13.7		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E
COBALT	2.52		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	4.05		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E
LEAD	5.42		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, A, FD
NICKEL	8.00		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E
THALLIUM	0.0571	J	0.0309	MDL	0.103	PQL	mg/Kg	J	Z, Q
VANADIUM	16.5		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, E
ZINC	15.6		0.577	MDL	3.09	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 3:29:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.284	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: SL-005-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 3:29:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0554	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-005-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 3:29:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.120	MDL	0.443	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 3:29:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.267		0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.78		0.0665	MDL	0.443	PQL	mg/Kg	J	Q
BERYLLIUM	0.799		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.375		0.0399	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	37.4		0.133	MDL	0.443	PQL	mg/Kg	J	Q, E
COBALT	10.8		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	16.9		0.0731	MDL	0.443	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, A
NICKEL	21.0		0.111	MDL	0.443	PQL	mg/Kg	J	Q, E
SILVER	0.0434	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.468		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	77.0		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	95.8		0.620	MDL	3.32	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *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	0.0431	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.20		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	127		0.116	MDL	0.431	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.78		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
BERYLLIUM	0.576		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.324		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	22.4		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	6.99		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	11.6		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA5C-SB-9.0-10.0 ***Collected:*** 12/10/2010 3:39:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.1		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	12.6		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.0316	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.366		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	46.4		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	129		0.604	MDL	3.24	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 12:18:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	29.9		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E
COBALT	7.40		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	10.6		0.0752	MDL	0.456	PQL	mg/Kg	J	Q, E
NICKEL	14.9		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E
VANADIUM	60.3		0.0251	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-008-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 12:18:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.307	J	0.0456	MDL	0.456	PQL	mg/Kg	J	Z, Q

Sample ID: SL-008-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 12:18:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.586		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-008-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 12:18:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.123	MDL	0.456	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 12:18:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.237		0.0684	MDL	0.228	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.76		0.0684	MDL	0.456	PQL	mg/Kg	J	Q
BERYLLIUM	0.870		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.247		0.0410	MDL	0.114	PQL	mg/Kg	J	Q
LEAD	11.6		0.0118	MDL	0.228	PQL	mg/Kg	J	Q, A
SILVER	0.0421	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.484		0.0342	MDL	0.114	PQL	mg/Kg	J	Q
ZINC	99.1		0.638	MDL	3.42	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.5		0.115	MDL	0.425	PQL	mg/Kg	J	Q

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0638	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.38		0.0638	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.602		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0604	J	0.0383	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.6		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E
COBALT	3.54		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	5.42		0.0702	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	6.69		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, A
NICKEL	7.96		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-008-SA5C-SB-8.0-9.0 **Collected:** 12/10/2010 12:22:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.168		0.0128	MDL	0.106	PQL	mg/Kg	J	Q
THALLIUM	0.326		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	35.2		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	53.7		0.595	MDL	3.19	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 2:19:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-009-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 2:19:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.548		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 2:19:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.114	MDL	0.424	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 2:19:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0635	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.23		0.0635	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.618		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.137		0.0381	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	26.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COBALT	8.24		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.1		0.0699	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	7.98		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	12.7		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0214	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.354		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	60.7		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	85.9		0.593	MDL	3.18	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0957	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.628		0.0543	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.7		0.117	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0652	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.62		0.0652	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.522		0.0174	MDL	0.109	PQL	mg/Kg	J	Q
CADMIUM	0.167		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	5.86		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	7.10		0.0717	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	5.85		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	9.46		0.109	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.0204	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.286		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	33.6		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	61.9		0.608	MDL	3.26	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.178	J	0.0448	MDL	0.448	PQL	mg/Kg	J	Z, Q

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.952		0.0560	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	139		0.121	MDL	0.448	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0672	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.89		0.0672	MDL	0.448	PQL	mg/Kg	J	Q
BERYLLIUM	0.815		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.257		0.0403	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.134	MDL	0.448	PQL	mg/Kg	J	Q, E
COBALT	7.94		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	11.8		0.0739	MDL	0.448	PQL	mg/Kg	J	Q, E
LEAD	9.92		0.0116	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.112	MDL	0.448	PQL	mg/Kg	J	Q, E
SILVER	0.0461	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.417		0.0336	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	56.8		0.0246	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	87.5		0.627	MDL	3.36	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *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	0.0434	MDL	0.434	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.42		0.0542	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.7		0.117	MDL	0.434	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.107	J	0.0651	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.61		0.0651	MDL	0.434	PQL	mg/Kg	J	Q
BERYLLIUM	0.519		0.0174	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.166		0.0390	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	19.7		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	5.67		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	7.73		0.0716	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	6.22		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, A
NICKEL	11.1		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.0196	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.268		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	35.1		0.0239	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	65.3		0.607	MDL	3.25	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.213	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.860		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.116	MDL	0.431	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.219		0.0647	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.91		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
BERYLLIUM	0.804		0.0173	MDL	0.108	PQL	mg/Kg	J	Q
CADMIUM	0.176		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	23.9		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	7.33		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	9.04		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
NICKEL	13.8		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.0422	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.424		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	50.2		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	83.8		0.604	MDL	3.24	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.520		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.115	MDL	0.424	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.44		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.465		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.125		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COBALT	5.78		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	8.60		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	5.62		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	9.10		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0214	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.288		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	39.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	70.2		0.594	MDL	3.18	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.231	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z, Q

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.610		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.121	MDL	0.450	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.148	J	0.0675	MDL	0.225	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.10		0.0675	MDL	0.450	PQL	mg/Kg	J	Q
BERYLLIUM	0.698		0.0180	MDL	0.112	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
CADMIUM	0.409		0.0405	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	31.7		0.135	MDL	0.450	PQL	mg/Kg	J	Q, E
COBALT	10.1		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	14.4		0.0742	MDL	0.450	PQL	mg/Kg	J	Q, E
LEAD	12.1		0.0117	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	18.8		0.112	MDL	0.450	PQL	mg/Kg	J	Q, E
SILVER	0.0416	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.384		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	63.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	85.4		0.630	MDL	3.37	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.207		0.0319	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z, Q

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	127		0.115	MDL	0.425	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.119	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
ARSENIC	5.03		0.0637	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.555		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.263		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	22.8		0.127	MDL	0.425	PQL	mg/Kg	J	Q, E
COBALT	6.31		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0701	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	7.10		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	14.5		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0378	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
VANADIUM	43.0		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	77.9		0.595	MDL	3.19	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z, Q

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
MOLYBDENUM	0.578		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.115	MDL	0.424	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.186	J	0.0637	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.20		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.543		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.193		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	21.6		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	6.24		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.1		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	8.34		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	13.9		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0302	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.341		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	44.5		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	91.5		0.594	MDL	3.18	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
SELENIUM	0.0751	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
MOLYBDENUM	0.397		0.0525	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.7		0.113	MDL	0.420	PQL	mg/Kg	J	Q

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.0875	J	0.0630	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.09		0.0630	MDL	0.420	PQL	mg/Kg	J	Q
BERYLLIUM	0.335		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.206		0.0378	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	11.4		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E
COBALT	3.57		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	5.20		0.0693	MDL	0.420	PQL	mg/Kg	J	Q, E
LEAD	5.57		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
NICKEL	7.07		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0148	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.217		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	22.9		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	59.8		0.588	MDL	3.15	PQL	mg/Kg	J	Q

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z, Q

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.841		0.0512	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	21.9		0.111	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.366		0.0615	MDL	0.205	PQL	mg/Kg	UJ	Q, B, FD
ARSENIC	3.22		0.0615	MDL	0.410	PQL	mg/Kg	J	Q
BERYLLIUM	0.161		0.0164	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0987	J	0.0369	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	13.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E
COBALT	2.34		0.0205	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	3.30		0.0676	MDL	0.410	PQL	mg/Kg	J	Q, E
LEAD	1.78		0.0107	MDL	0.205	PQL	mg/Kg	J	Q, A, FD
NICKEL	7.44		0.102	MDL	0.410	PQL	mg/Kg	J	Q, E
THALLIUM	0.0604	J	0.0307	MDL	0.102	PQL	mg/Kg	J	Z, Q
VANADIUM	15.3		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
ZINC	13.0		0.574	MDL	3.07	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.180	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z, Q

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.37		0.0521	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	130		0.113	MDL	0.417	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	0.269		0.0625	MDL	0.208	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.66		0.0625	MDL	0.417	PQL	mg/Kg	J	Q
BERYLLIUM	0.288		0.0167	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.232		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	31.1		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E
COBALT	5.60		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	9.95		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	5.21		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, A
NICKEL	14.8		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0258	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.166		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	42.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	43.4		0.583	MDL	3.13	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 **Collected:** 12/10/2010 9:05:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-008-SA5C-SB-4.0-5.0 **Collected:** 12/10/2010 12:18:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-008-SA5C-SB-8.0-9.0 **Collected:** 12/10/2010 12:22:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-010-SA5C-SB-9.0-10.0 **Collected:** 12/10/2010 11:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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	0.42	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5 **Collected:** 12/10/2010 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	0.21	U	0.21	MDL	1.0	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-008-SA5C-SB-8.0-9.0 *Collected:* 12/10/2010 12:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0165	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
MERCURY	0.0082	J	0.0031	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0186	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

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

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	72.8	J	36.7	MDL	73.3	PQL	ng/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	109		38.1	MDL	76.1	PQL	ng/Kg	J	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	70.0	J	36.5	MDL	73.0	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *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)	0.60	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *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)	0.58	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.2	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *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)	0.49	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	8.0		0.43	MDL	1.3	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
MIREX	0.10	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z, FD

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	0.24	U	0.24	MDL	0.36	PQL	ug/Kg	UJ	FD

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
4,4'-DDT	0.21	J	0.071	MDL	0.36	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
AROCLOR 1248	0.78	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1260	2.1		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5460	1.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, FD

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *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	0.86	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *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	1.4	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.92	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *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	0.49	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.91	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.66	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *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 1260	0.44	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *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	0.64	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.48	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *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 1260	0.64	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.1	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
Aroclor 5460	1.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.34	U	0.34	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1254	1.2	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z, S, FD
AROCLOR 1260	3.8		0.34	MDL	1.8	PQL	ug/Kg	J	S, FD
Aroclor 5460	2.7	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S, FD

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
2,4-D	1.6	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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	27	J	18	MDL	350	PQL	ug/Kg	J	Z, FD

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	19	MDL	380	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *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	380	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *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	23	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *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	21	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-234-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 11:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	360	PQL	ug/Kg	J	Z
CHRYSENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-235-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	21	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	19	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	18	MDL	360	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
ANTHRACENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP03-SA5B-QC-121010 *Collected:* 12/10/2010 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
BENZO(G,H,I)PERYLENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	0.95	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	1.6	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	FD
NAPHTHALENE	0.71	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.84	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	1.3	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *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	0.89	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *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(B)FLUORANTHENE	0.81	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.51	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *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(K)FLUORANTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.75	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-010-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 10:54:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.99	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 ***Collected:*** 12/10/2010 11:03:00 ***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(A)ANTHRACENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0 ***Collected:*** 12/10/2010 9:39:00 ***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	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 ***Collected:*** 12/10/2010 9:45:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.81	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.60	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.74	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-057-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 11:20:00 ***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(B)FLUORANTHENE	0.80	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.59	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory:** LL

EDD Filename: PrepDE035_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-234-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 11:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.57	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	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

Sample ID: SL-235-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 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
BENZO(A)ANTHRACENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.99	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-287-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 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
ANTHRACENE	0.62	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.97	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.83	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-288-SA5B-SS-0.0-0.5 ***Collected:*** 12/10/2010 9:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.84	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	1.0	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	4.1		0.70	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.1	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
CHRYSENE	2.6		0.35	MDL	1.7	PQL	ug/Kg	J	FD
FLUORANTHENE	2.8		0.70	MDL	1.7	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	0.99	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-288-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z, FD
PYRENE	2.2		0.70	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-290-SA5B-SS-0.0-0.5 *Collected:* 12/10/2010 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	9.1	J	7.2	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	15	J	3.6	MDL	18	PQL	ug/Kg	J	Z

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

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	670	J	660	MDL	1600	PQL	ug/Kg	J	Z

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

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	190	J	120	MDL	580	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	190	J	110	MDL	550	PQL	ug/Kg	J	Z
METHANOL	110	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	180	J	110	MDL	530	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	190	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	210	J	110	MDL	570	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	180	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	230	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	J	110	MDL	540	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-005-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 3:29:00 *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	0.81	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *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	1.4	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-005-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 3:39:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-008-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 12:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.0	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-009-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 2:19:00 *Analysis Type:* RES *Dilution:* 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-009-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.7	J	7.5	MDL	8.9	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.8	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-010-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 10:54:00 *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	1.6	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-010-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 11:03:00 *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	1.5	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-011-SA5C-SB-4.0-5.0 *Collected:* 12/10/2010 9:39:00 *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.94	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-011-SA5C-SB-9.0-10.0 *Collected:* 12/10/2010 9:45:00 *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	1.0	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE035

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE035 **Laboratory: LL**
EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Sample ID	Type	Actual	Criteria	Units	Flag
SL-005-SA5C-SB-4.0-5.0 (RES)	Sampling To Analysis	17.00	14.00	DAYS	J(all detects) UJ(all non-detects)
SL-005-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	
SL-009-SA5C-SB-4.0-5.0 (RES)		17.00	14.00	DAYS	
SL-009-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	
SL-010-SA5C-SB-4.0-5.0 (RES)		17.00	14.00	DAYS	
SL-010-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	
SL-011-SA5C-SB-4.0-5.0 (RES)		17.00	14.00	DAYS	
SL-011-SA5C-SB-9.0-10.0 (RES)		17.00	14.00	DAYS	

Method Blank Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P34908FB221851	12/17/2010 6:51:00 PM	PHOSPHORUS TIN	1.38 mg/Kg 1.13 mg/Kg	DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA5B-QC-121010(RES)	TIN	1.80 mg/Kg	1.80U mg/Kg
SL-005-SA5C-SB-4.0-5.0(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-005-SA5C-SB-9.0-10.0(RES)	TIN	1.92 mg/Kg	1.92U mg/Kg
SL-008-SA5C-SB-4.0-5.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-008-SA5C-SB-8.0-9.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-009-SA5C-SB-4.0-5.0(RES)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-009-SA5C-SB-9.0-10.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-010-SA5C-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-010-SA5C-SB-9.0-10.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-011-SA5C-SB-4.0-5.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-011-SA5C-SB-9.0-10.0(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-057-SA5B-SS-0.0-0.5(RES)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-234-SA5B-SS-0.0-0.5(RES)	TIN	2.16 mg/Kg	2.16U mg/Kg
SL-235-SA5B-SS-0.0-0.5(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-287-SA5B-SS-0.0-0.5(RES)	TIN	1.99 mg/Kg	1.99U mg/Kg
SL-288-SA5B-SS-0.0-0.5(RES)	TIN	1.85 mg/Kg	1.85U mg/Kg
SL-290-SA5B-SS-0.0-0.5(RES)	TIN	1.46 mg/Kg	1.46U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_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-005-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.81 ug/Kg	4.3U ug/Kg
SL-005-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-005-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	3.9U ug/Kg
SL-005-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.12 ug/Kg	3.9U ug/Kg
SL-008-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.6U ug/Kg
SL-008-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	4.6U ug/Kg
SL-009-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.4U ug/Kg
SL-009-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.4U ug/Kg
SL-009-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.5U ug/Kg
SL-009-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.13 ug/Kg	4.5U ug/Kg
SL-010-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.0U ug/Kg
SL-010-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.0U ug/Kg
SL-010-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.0U ug/Kg
SL-010-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.12 ug/Kg	4.0U ug/Kg
SL-011-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.94 ug/Kg	4.2U ug/Kg
SL-011-SA5C-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.2U ug/Kg
SL-011-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.0U ug/Kg
SL-011-SA5C-SB-9.0-10.0(RES)	TOLUENE	0.09 ug/Kg	4.0U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH34B260524	12/22/2010 5:24:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	6.7 ug/Kg 6.1 ug/Kg	DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: DE035_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-288-SA5B-SS-0.0-0.5MSD (SL-288-SA5B-SS-0.0-0.5)	HEPTACHLOR	-	136	13.00-126.00	-	HEPTACHLOR	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-011-SA5C-SB-9.0-10.0MS	EFH (C15-C20)	172	137	49.00-123.00	23 (20.00)	EFH (C15-C20)	J(all detects)
SL-011-SA5C-SB-9.0-10.0MSD	EFH (C21-C30)	799	504	49.00-123.00	29 (20.00)	EFH (C21-C30)	EFH (C30-C40)
(SL-011-SA5C-SB-9.0-10.0)	EFH (C30-C40)	1486	1361	49.00-123.00	-	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-288-SA5B-SS-0.0-0.5MS	ARSENIC	183	140	75.00-125.00	-	ARSENIC	
SL-288-SA5B-SS-0.0-0.5MSD	BERYLLIUM	128	-	75.00-125.00	-	BERYLLIUM	
(DUP03-SA5B-QC-121010	CADMIUM	149	136	75.00-125.00	-	CADMIUM	
SL-005-SA5C-SB-4.0-5.0	CHROMIUM	157	-	75.00-125.00	-	CHROMIUM	
SL-005-SA5C-SB-9.0-10.0	COBALT	135	-	75.00-125.00	-	COBALT	
SL-008-SA5C-SB-4.0-5.0	COPPER	137	-	75.00-125.00	-	COPPER	
SL-008-SA5C-SB-8.0-9.0	LEAD	162	137	75.00-125.00	-	LEAD	
SL-009-SA5C-SB-4.0-5.0	NICKEL	144	-	75.00-125.00	-	NICKEL	
SL-009-SA5C-SB-9.0-10.0	SILVER	149	135	75.00-125.00	-	SILVER	
SL-010-SA5C-SB-4.0-5.0	THALLIUM	149	129	75.00-125.00	-	THALLIUM	J(all detects)
SL-010-SA5C-SB-9.0-10.0	VANADIUM	168	140	75.00-125.00	-	VANADIUM	
SL-011-SA5C-SB-4.0-5.0	ZINC	178	143	75.00-125.00	-	ZINC	
SL-011-SA5C-SB-9.0-10.0							
SL-057-SA5B-SS-0.0-0.5							
SL-234-SA5B-SS-0.0-0.5							
SL-235-SA5B-SS-0.0-0.5							
SL-287-SA5B-SS-0.0-0.5							
SL-288-SA5B-SS-0.0-0.5							
SL-290-SA5B-SS-0.0-0.5)							
SL-288-SA5B-SS-0.0-0.5MSD	ANTIMONY	-	71	75.00-125.00	-	ANTIMONY	
(DUP03-SA5B-QC-121010							
SL-005-SA5C-SB-4.0-5.0							
SL-005-SA5C-SB-9.0-10.0							
SL-008-SA5C-SB-4.0-5.0							
SL-008-SA5C-SB-8.0-9.0							
SL-009-SA5C-SB-4.0-5.0							
SL-009-SA5C-SB-9.0-10.0							
SL-010-SA5C-SB-4.0-5.0							J(all detects)
SL-010-SA5C-SB-9.0-10.0							UJ(all non-detects)
SL-011-SA5C-SB-4.0-5.0							
SL-011-SA5C-SB-9.0-10.0							
SL-057-SA5B-SS-0.0-0.5							
SL-234-SA5B-SS-0.0-0.5							
SL-235-SA5B-SS-0.0-0.5							
SL-287-SA5B-SS-0.0-0.5							
SL-288-SA5B-SS-0.0-0.5							
SL-290-SA5B-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_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-288-SA5B-SS-0.0-0.5MS (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	SELENIUM	135	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-288-SA5B-SS-0.0-0.5MS **SL-288-SA5B-SS-0.0-0.5MSD** (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	MOLYBDENUM	152	136	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-288-SA5B-SS-0.0-0.5MS **SL-288-SA5B-SS-0.0-0.5MSD** (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	BARIUM	185	151	75.00-125.00	-	BARIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_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-288-SA5B-SS-0.0-0.5MS **SL-288-SA5B-SS-0.0-0.5MSD** (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	ALUMINUM MAGNESIUM PHOSPHORUS	731 146 182	616 - 140	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM MAGNESIUM PHOSPHORUS	J(all detects) Al, Mg No Qual, >4x
SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	IRON	-	-11	75.00-125.00	-	IRON	No Qual, >4x
SL-288-SA5B-SS-0.0-0.5MS **SL-288-SA5B-SS-0.0-0.5MSD** (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	CALCIUM MANGANESE	803 163	1941 -	75.00-125.00 75.00-125.00	36 (20.00) 23 (20.00)	CALCIUM MANGANESE	J(all detects) UJ(all non-detects) Ca No Qual %R, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: DE035_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-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (SL-288-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	226	-	39.00-167.00	76 (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-288-SA5B-SS-0.0-0.5MSD (SL-288-SA5B-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	-	-	16.00-119.00	40 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects)
	ANILINE	-	-	35.00-95.00	31 (30.00)	ANILINE	
	BENZOIC ACID	-	-	10.00-173.00	71 (30.00)	BENZOIC ACID	

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-288-SA5B-SS-0.0-0.5MS SL-288-SA5B-SS-0.0-0.5MSD (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	TITANIUM	209	171	75.00-125.00	-	TITANIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_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-288-SA5B-SS-0.0-0.5MS (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	Nitrate-NO3	79	-	80.00-120.00	-	Nitrate-NO3	J(all detects) UJ(all non-detects)
SL-009-SA5C-SB-9.0-10.0MS (SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5C-SB-9.0-10.0DUP	FLUORIDE	21	20.00	
(SL-005-SA5C-SB-4.0-5.0	Nitrate-NO3	200	20.00	
SL -005-SA5C-SB-9.0-10.0				
SL -009-SA5C-SB-4.0-5.0				No Qual
SL -009-SA5C-SB-9.0-10.0				OK by difference
SL -234-SA5B-SS-0.0-0.5				
SL -235-SA5B-SS-0.0-0.5				
SL -287-SA5B-SS-0.0-0.5)				
SL-288-SA5B-SS-0.0-0.5DUP	FLUORIDE	200	20.00	
(DUP03-SA5B-QC-121010	Nitrate-NO3	200	20.00	
SL -005-SA5C-SB-4.0-5.0				
SL -008-SA5C-SB-4.0-5.0				
SL -008-SA5C-SB-8.0-9.0				
SL -010-SA5C-SB-4.0-5.0				
SL -010-SA5C-SB-9.0-10.0				
SL -011-SA5C-SB-4.0-5.0				No Qual
SL -011-SA5C-SB-9.0-10.0				OK by difference
SL -057-SA5B-SS-0.0-0.5				
SL -234-SA5B-SS-0.0-0.5				
SL -235-SA5B-SS-0.0-0.5				
SL -287-SA5B-SS-0.0-0.5				
SL -288-SA5B-SS-0.0-0.5				
SL -290-SA5B-SS-0.0-0.5)				

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-288-SA5B-SS-0.0-0.5DUP	ALUMINUM	22	20.00	
(DUP03-SA5B-QC-121010	LITHIUM	23	20.00	
SL -005-SA5C-SB-4.0-5.0	MANGANESE	47	20.00	
SL -005-SA5C-SB-9.0-10.0	TIN	23	20.00	
SL -008-SA5C-SB-4.0-5.0				
SL -008-SA5C-SB-8.0-9.0				
SL -009-SA5C-SB-4.0-5.0				
SL -009-SA5C-SB-9.0-10.0				
SL -010-SA5C-SB-4.0-5.0				J(all detects)
SL -010-SA5C-SB-9.0-10.0				UJ(all non-detects)
SL -011-SA5C-SB-4.0-5.0				
SL -011-SA5C-SB-9.0-10.0				Li, Sn No Qual
SL -057-SA5B-SS-0.0-0.5				OK by difference
SL -234-SA5B-SS-0.0-0.5				
SL -235-SA5B-SS-0.0-0.5				
SL -287-SA5B-SS-0.0-0.5				
SL -288-SA5B-SS-0.0-0.5				
SL -290-SA5B-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-288-SA5B-SS-0.0-0.5DUP	ANTIMONY	108	20.00	
(DUP03-SA5B-QC-121010	BERYLLIUM	31	20.00	
SL -005-SA5C-SB-4.0-5.0	CADMIUM	41	20.00	
SL -005-SA5C-SB-9.0-10.0	CHROMIUM	27	20.00	
SL -008-SA5C-SB-4.0-5.0	COBALT	24	20.00	
SL -008-SA5C-SB-8.0-9.0	COPPER	22	20.00	
SL -009-SA5C-SB-4.0-5.0	MOLYBDENUM	33	20.00	
SL -009-SA5C-SB-9.0-10.0	NICKEL	24	20.00	
SL -010-SA5C-SB-4.0-5.0	THALLIUM	59	20.00	J(all detects)
SL -010-SA5C-SB-9.0-10.0	VANADIUM	25	20.00	UJ(all non-detects)
SL -011-SA5C-SB-4.0-5.0				
SL -011-SA5C-SB-9.0-10.0				Sb, Be, Cd, Tl
SL -057-SA5B-SS-0.0-0.5				No Qual
SL -234-SA5B-SS-0.0-0.5				OK by difference
SL -235-SA5B-SS-0.0-0.5				
SL -287-SA5B-SS-0.0-0.5				
SL -288-SA5B-SS-0.0-0.5				
SL -290-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE035 Laboratory: LL

EDD Filename: PrepDE035_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
P03514AQ241821A (DUP03-SA5B-QC-121010 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03519AQ241754A (DUP03-SA5B-QC-121010 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34908FQ221855 (DUP03-SA5B-QC-121010 SL-005-SA5C-SB-4.0-5.0 SL-005-SA5C-SB-9.0-10.0 SL-008-SA5C-SB-4.0-5.0 SL-008-SA5C-SB-8.0-9.0 SL-009-SA5C-SB-4.0-5.0 SL-009-SA5C-SB-9.0-10.0 SL-010-SA5C-SB-4.0-5.0 SL-010-SA5C-SB-9.0-10.0 SL-011-SA5C-SB-4.0-5.0 SL-011-SA5C-SB-9.0-10.0 SL-057-SA5B-SS-0.0-0.5 SL-234-SA5B-SS-0.0-0.5 SL-235-SA5B-SS-0.0-0.5 SL-287-SA5B-SS-0.0-0.5 SL-288-SA5B-SS-0.0-0.5 SL-290-SA5B-SS-0.0-0.5)	ALUMINUM	76	-	80.00-120.00	-	ALUMINUM	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-010-SA5C-SB-4.0-5.0	N-Nitrosodimethylamine-d6	156	50.00-150.00	All Target Analytes	J (all detects)

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-057-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SL-288-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
MOISTURE	4.3	4.8	11		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
ALUMINUM	3760	3240	15	50.00	No Qualifiers Applied
BORON	3.02	2.88	5	50.00	
CALCIUM	7300	8080	10	50.00	
IRON	5330	5290	1	50.00	
LITHIUM	3.2	2.9	10	50.00	
MAGNESIUM	1030	1010	2	50.00	
MANGANESE	104	105	1	50.00	
PHOSPHORUS	320	357	11	50.00	
POTASSIUM	595	627	5	50.00	
SODIUM	51.4	54.3	5	50.00	
STRONTIUM	14.8	15.4	4	50.00	
TIN	1.85	1.80	3	50.00	
TITANIUM	310	291	6	50.00	
Zirconium	2.52	2.03	22	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
ARSENIC	3.22	3.76	15	50.00	No Qualifiers Applied
BARIUM	21.9	24.2	10	50.00	
BERYLLIUM	0.161	0.149	8	50.00	
CADMIUM	0.0987	0.110	11	50.00	
CHROMIUM	13.2	13.7	4	50.00	
COBALT	2.34	2.52	7	50.00	
COPPER	3.30	4.05	20	50.00	
MOLYBDENUM	0.841	0.826	2	50.00	
NICKEL	7.44	8.00	7	50.00	
SELENIUM	0.193	0.117	49	50.00	
THALLIUM	0.0604	0.0571	6	50.00	
VANADIUM	15.3	16.5	8	50.00	
ZINC	13.0	15.6	18	50.00	
ANTIMONY	0.366	0.123	99	50.00	J(all detects)
LEAD	1.78	5.42	101	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
HEXAVALENT CHROMIUM	1.0 U	0.30	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
MIREX	0.36 U	0.10	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
AROCLOR 1248	1.8 U	0.78	200	50.00	
AROCLOR 1254	1.2	1.8 U	200	50.00	J(all detects)
AROCLOR 1260	3.8	2.1	58	50.00	UJ(all non-detects)
Aroclor 5460	2.7	1.4	63	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
ANTHRACENE	0.84	1.8 U	200	50.00	
BENZO(A)ANTHRACENE	1.0	1.8 U	200	50.00	
BENZO(A)PYRENE	1.5	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	4.1	1.0	122	50.00	
BENZO(G,H,I)PERYLENE	1.1	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	1.6	1.8 U	200	50.00	J(all detects)
CHRYSENE	2.6	0.95	93	50.00	UJ(all non-detects)
FLUORANTHENE	2.8	1.6	55	50.00	
INDENO(1,2,3-CD)PYRENE	0.99	1.8 U	200	50.00	
NAPHTHALENE	1.7 U	0.71	200	50.00	
PHENANTHRENE	1.6	0.84	62	50.00	
PYRENE	2.2	1.3	51	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
BIS(2-ETHYLHEXYL)PHTHALATE	350 U	27	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
PH	8.71	8.70	0	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: PrepDE035_v1 **eQAPP Name: CDM_SSFL_110509**

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-288-SA5B-SS-0.0-0.5	DUP03-SA5B-QC-121010			
Oxidation Reduction Potential	439	416	5		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	72.8	73.3	PQL	ng/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	70.0	73.0	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	BORON	J	2.88	5.25	PQL	mg/Kg	J (all detects)
	SODIUM	J	54.3	105	PQL	mg/Kg	
	TIN	J	1.80	10.5	PQL	mg/Kg	
	Zirconium	J	2.03	5.25	PQL	mg/Kg	
SL-005-SA5C-SB-4.0-5.0	TIN	J	2.19	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.74	5.59	PQL	mg/Kg	
SL-005-SA5C-SB-9.0-10.0	TIN	J	1.92	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.06	5.34	PQL	mg/Kg	
SL-008-SA5C-SB-4.0-5.0	TIN	J	2.70	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.77	5.70	PQL	mg/Kg	
SL-008-SA5C-SB-8.0-9.0	BORON	J	5.01	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.6	108	PQL	mg/Kg	
	TIN	J	2.74	10.8	PQL	mg/Kg	
SL-009-SA5C-SB-4.0-5.0	TIN	J	2.06	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.67	5.24	PQL	mg/Kg	
SL-009-SA5C-SB-9.0-10.0	TIN	J	2.46	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.33	5.43	PQL	mg/Kg	
SL-010-SA5C-SB-4.0-5.0	TIN	J	2.55	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.94	5.60	PQL	mg/Kg	
SL-010-SA5C-SB-9.0-10.0	TIN	J	2.58	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.48	5.42	PQL	mg/Kg	
SL-011-SA5C-SB-4.0-5.0	TIN	J	2.43	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.930	5.39	PQL	mg/Kg	
SL-011-SA5C-SB-9.0-10.0	TIN	J	2.21	10.4	PQL	mg/Kg	J (all detects)
SL-057-SA5B-SS-0.0-0.5	TIN	J	2.41	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.09	5.62	PQL	mg/Kg	
SL-234-SA5B-SS-0.0-0.5	SODIUM	J	106	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.16	10.7	PQL	mg/Kg	
	Zirconium	J	1.78	5.36	PQL	mg/Kg	
SL-235-SA5B-SS-0.0-0.5	SODIUM	J	86.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	1.09	5.25	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-287-SA5B-SS-0.0-0.5	BORON	J	4.78	5.30	PQL	mg/Kg	J (all detects)
	SODIUM	J	66.7	106	PQL	mg/Kg	
	TIN	J	1.99	10.6	PQL	mg/Kg	
	Zirconium	J	1.22	5.30	PQL	mg/Kg	
SL-288-SA5B-SS-0.0-0.5	BORON	J	3.02	5.07	PQL	mg/Kg	J (all detects)
	SODIUM	J	51.4	101	PQL	mg/Kg	
	TIN	J	1.85	10.1	PQL	mg/Kg	
	Zirconium	J	2.52	5.07	PQL	mg/Kg	
SL-290-SA5B-SS-0.0-0.5	TIN	J	1.46	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.03	5.36	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	ANTIMONY	J	0.123	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.412	PQL	mg/Kg	
	THALLIUM	J	0.0571	0.103	PQL	mg/Kg	
SL-005-SA5C-SB-4.0-5.0	SELENIUM	J	0.284	0.443	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0434	0.111	PQL	mg/Kg	
SL-005-SA5C-SB-9.0-10.0	ANTIMONY	J	0.143	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.431	PQL	mg/Kg	
	SILVER	J	0.0316	0.108	PQL	mg/Kg	
SL-008-SA5C-SB-4.0-5.0	SELENIUM	J	0.307	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0421	0.114	PQL	mg/Kg	
SL-008-SA5C-SB-8.0-9.0	ANTIMONY	J	0.150	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0604	0.106	PQL	mg/Kg	
	SELENIUM	J	0.215	0.425	PQL	mg/Kg	
SL-009-SA5C-SB-4.0-5.0	ANTIMONY	J	0.180	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.220	0.424	PQL	mg/Kg	
	SILVER	J	0.0214	0.106	PQL	mg/Kg	
SL-009-SA5C-SB-9.0-10.0	ANTIMONY	J	0.123	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0957	0.434	PQL	mg/Kg	
	SILVER	J	0.0204	0.109	PQL	mg/Kg	
SL-010-SA5C-SB-4.0-5.0	ANTIMONY	J	0.152	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.178	0.448	PQL	mg/Kg	
	SILVER	J	0.0461	0.112	PQL	mg/Kg	
SL-010-SA5C-SB-9.0-10.0	ANTIMONY	J	0.107	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.434	PQL	mg/Kg	
	SILVER	J	0.0196	0.108	PQL	mg/Kg	
SL-011-SA5C-SB-4.0-5.0	SELENIUM	J	0.213	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0422	0.108	PQL	mg/Kg	
SL-011-SA5C-SB-9.0-10.0	ANTIMONY	J	0.122	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.424	PQL	mg/Kg	
	SILVER	J	0.0214	0.106	PQL	mg/Kg	
SL-057-SA5B-SS-0.0-0.5	ANTIMONY	J	0.148	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.231	0.450	PQL	mg/Kg	
	SILVER	J	0.0416	0.112	PQL	mg/Kg	
SL-234-SA5B-SS-0.0-0.5	ANTIMONY	J	0.119	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.141	0.425	PQL	mg/Kg	
	SILVER	J	0.0378	0.106	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-235-SA5B-SS-0.0-0.5	ANTIMONY	J	0.186	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.424	PQL	mg/Kg	
	SILVER	J	0.0302	0.106	PQL	mg/Kg	
SL-287-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0875	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0751	0.420	PQL	mg/Kg	
	SILVER	J	0.0148	0.105	PQL	mg/Kg	
SL-288-SA5B-SS-0.0-0.5	CADMIUM	J	0.0987	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.193	0.410	PQL	mg/Kg	
	THALLIUM	J	0.0604	0.102	PQL	mg/Kg	
SL-290-SA5B-SS-0.0-0.5	SELENIUM	J	0.180	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0258	0.104	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)
SL-008-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-008-SA5C-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-057-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-287-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-290-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5C-SB-8.0-9.0	MERCURY	J	0.0165	0.108	PQL	mg/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	MERCURY	J	0.0082	0.106	PQL	mg/Kg	J (all detects)
SL-235-SA5B-SS-0.0-0.5	MERCURY	J	0.0186	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	ETHANOL	J	190	580	PQL	ug/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	ETHANOL	J	190	550	PQL	ug/Kg	J (all detects)
	METHANOL	J	110	550	PQL	ug/Kg	
SL-009-SA5C-SB-4.0-5.0	ETHANOL	J	180	530	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5C-SB-9.0-10.0	ETHANOL	J	190	560	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-4.0-5.0	ETHANOL	J	210	570	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	ETHANOL	J	180	550	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	ETHANOL	J	230	550	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-9.0-10.0	ETHANOL	J	200	540	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	EFH (C30-C40)	J	0.60	1.4	PQL	mg/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.58	1.3	PQL	mg/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	1.2	1.3	PQL	mg/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	EFH (C15-C20)	J	0.49	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	MIREX	J	0.10	0.36	PQL	ug/Kg	J (all detects)
SL-290-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.21	0.36	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	AROCLOR 1248 Aroclor 5460	J J	0.78 1.4	1.8 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-005-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.86	2.0	PQL	ug/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	AROCLOR 1248 AROCLOR 1260 Aroclor 5460	J J J	1.4 0.92 1.7	1.9 1.9 3.6	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-008-SA5C-SB-4.0-5.0	AROCLOR 1260	J	0.49	2.0	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.91	1.8	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260	J J	0.93 0.66	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	AROCLOR 1260	J	0.44	1.9	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	0.64 1.4	1.9 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-011-SA5C-SB-9.0-10.0	AROCLOR 1260	J	0.48	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.64	2.0	PQL	ug/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	1.3 1.1 2.1	1.9 1.9 3.6	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-235-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.4 1.7	1.8 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-287-SA5B-SS-0.0-0.5	Aroclor 5460	J	1.9	3.6	PQL	ug/Kg	J (all detects)
SL-288-SA5B-SS-0.0-0.5	AROCLOR 1254 Aroclor 5460	J J	1.2 2.7	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-287-SA5B-SS-0.0-0.5	2,4-D	J	1.6	3.9	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	0.81 0.11	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-005-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	1.4 0.12	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-008-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.0 0.12	4.6 4.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-009-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.1 0.15	4.4 4.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	ACETONE METHYLENE CHLORIDE TOLUENE	J J J	7.7 1.8 0.13	8.9 4.5 4.5	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-010-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.6 0.15	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	1.5 0.12	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	0.94 0.11	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-011-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	1.0 0.09	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	350	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	380	PQL	ug/Kg	J (all detects)
SL-008-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	380	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	370	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	380	PQL	ug/Kg	J (all detects)
SL-010-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-011-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	360	PQL	ug/Kg	J (all detects)
SL-057-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	390	PQL	ug/Kg	J (all detects)
SL-234-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	21	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	360	PQL	ug/Kg	
	CHRYSENE	J	21	180	PQL	ug/Kg	
	FLUORANTHENE	J	25	180	PQL	ug/Kg	
	PYRENE	J	33	180	PQL	ug/Kg	
SL-235-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	360	PQL	ug/Kg	J (all detects)
SL-287-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	360	PQL	ug/Kg	J (all detects)
SL-290-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	360	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA5B-QC-121010	BENZO(B)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.95	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.71	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.84	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-005-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-008-SA5C-SB-4.0-5.0	NAPHTHALENE	J	0.89	1.9	PQL	ug/Kg	J (all detects)
SL-009-SA5C-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.51	1.8	PQL	ug/Kg	
SL-009-SA5C-SB-9.0-10.0	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.75	1.9	PQL	ug/Kg	
SL-010-SA5C-SB-4.0-5.0	ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.9	PQL	ug/Kg	
SL-010-SA5C-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	0.92	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.84	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	
	PYRENE	J	1.4	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE035 **Laboratory: LL**

EDD Filename: DE035_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.74	1.8	PQL	ug/Kg	
SL-011-SA5C-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.60	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.74	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	
SL-057-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.80	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	
SL-234-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.57	1.8	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
SL-235-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.99	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	
SL-287-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.97	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.83	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	1.8	PQL	ug/Kg	
SL-288-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-290-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	9.1	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	15	18	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA5C-SB-9.0-10.0	FORMALDEHYDE	J	670	1600	PQL	ug/Kg	J (all detects)

LDC #: 25337G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-5-11
SDG #: DE035 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer:

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

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	>RPDout
VI.	Matrix Spike Analysis	N	MS/D (Al, Ca, Fe, Mg >4X)
VII.	Duplicate Sample Analysis	N	D (Sb, Be, Cd, Li, Tl, Sn <5xRL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (Pb)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-011-SA5C-SB-4.0-5.0	11	SL-234-SA5B-SS-0.0-0.5	21		31	
2	SL-011-SA5C-SB-9.0-10.0	12	SL-235-SA5B-SS-0.0-0.5	22		32	
3	SL-288-SA5B-SS-0.0-0.5	13	SL-287-SA5B-SS-0.0-0.5	23		33	
4	SL-290-SA5B-SS-0.0-0.5	14	SL-005-SA5C-SB-4.0-5.0	24		34	
5	DUP03-SA5B-QC-121010	15	SL-005-SA5C-SB-9.0-10.0	25		35	
6	SL-010-SA5C-SB-4.0-5.0	16	SL-009-SA5C-SB-4.0-5.0	26		36	
7	SL-010-SA5C-SB-9.0-10.0	17	SL-009-SA5C-SB-9.0-10.0	27		37	
8	SL-008-SA5C-SB-4.0-5.0	18	SL-288-SA5B-SS-0.0-0.5MS	28		38	
9	SL-008-SA5C-SB-8.0-9.0	19	SL-288-SA5B-SS-0.0-0.5MSD	29		39	
10	SL-027-SA5B-SS-0.0-0.5	20	SL-288-SA5B-SS-0.0-0.5DUP	30		40	

Notes:

LDC #: 25337G4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICPMS: 2xdil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All

			Sample Identification															
Analyte	Maximum ICB/CCB[a] (ug/l)	Blank Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sb	0.72	0.72	0.22	0.12	0.37	0.27	0.12	0.15	0.11	0.24	0.15	0.15	0.12	0.19	0.087	0.27	0.14	0.18	0.12
Be	0.13	0.13																	

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE035
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6162943BKG Serial Dilution Lab Sample ID: 6162943L
Batch ID(s): P34908F, P34926E, P35508A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		37024.7600		35601.2000		4		P
Antimony	121	1.7860		1.7855	B	0		MS
Arsenic	75	15.7400		13.9900		11		MS
Barium	137	106.8000		101.5000		5		MS
Beryllium	9	0.7839		0.7600	B	3		MS
Boron		29.7800	B	44.5000	U	100		P
Cadmium	111	0.4815	B	0.9000	U	100		MS
Calcium		71909.2700		71789.1500		0		P
Chromium	52	64.5500		62.3500		3		MS
Cobalt	59	11.4100		11.0850		3		MS
Copper	63	16.0900		15.6400		3		MS
Iron		52521.8200		51997.1000		1		P
Lead	208	8.6800		7.6200		12	E	MS
Lithium		31.2000		47.5000	B	52		P
Magnesium		10173.9300		10246.2000		1		P
Manganese		1022.5600		1042.4000		2		P
Molybdenum	98	4.1050		4.3240		5		MS
Nickel	60	36.3000		35.6900		2		MS
Phosphorus		3159.0300		3167.8500		0		P
Potassium		5866.1000		5950.8000		1		P
Selenium	78	0.9415	B	1.0000	U	100		MS
Silver	107	0.0600	U	0.3000	U			MS
Sodium		506.9400	B	1865.0000	U	100		P
Strontium		145.9500		142.6000		2		P
Thallium	203	0.2946	B	0.7500	U	100		MS
Tin		18.2700	B	50.0000	U	100		P
Titanium		3110.4200		3054.4000		2		P
Vanadium	51	74.7300		72.3000		3		MS
Zinc	66	63.4400		59.3500	B	6		MS
Zirconium		24.8400	B	42.0000	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.

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

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3050B	6010B	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3050B	6020	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3060A	7199	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8081A	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8082	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8151A	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8270C	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	3550B	8270C SIM	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	Gen Prep	9045M	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	300.0	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	314.0	III
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163606	N	METHOD	7471A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3050B	6010B	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3050B	6020	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3060A	7199	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8081A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8082	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8151A	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8270C	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	3550B	8270C SIM	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	Gen Prep	9045M	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	300.0	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	314.0	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163605	N	METHOD	7471A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3050B	6010B	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	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
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3060A	7199	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8081A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8082	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8151A	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8270C	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	3550B	8270C SIM	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	Gen Prep	9045M	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	300.0	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	314.0	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163611	N	METHOD	7471A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3050B	6010B	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3050B	6020	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3060A	7199	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8081A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8082	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8151A	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8270C	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	3550B	8270C SIM	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	Gen Prep	9045M	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	300.0	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	314.0	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163598	N	METHOD	7471A	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3050B	6010B	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3050B	6020	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3060A	7199	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8081A	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
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8082	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8151A	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8270C	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	3550B	8270C SIM	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	Gen Prep	9045M	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	300.0	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	314.0	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163607	N	METHOD	7471A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3050B	6010B	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3050B	6020	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3060A	7199	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8081A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8082	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8151A	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8270C	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	3550B	8270C SIM	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	Gen Prep	9045M	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	300.0	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	314.0	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163608	N	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8151A	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
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	Gen Prep	9045M	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163599	N	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8151A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163600	MS	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3050B	6010B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8081A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8082	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8151A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8270C	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	3550B	8270C SIM	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163601	MSD	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3050B	6010B	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
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3050B	6020	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	3060A	7199	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	300.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	314.0	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5DUP	6163602	DUP	METHOD	7471A	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	P163599	N	METHOD	6850	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	P163599M241911A	MSD	METHOD	6850	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	P163599R241905A	MS	METHOD	6850	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3050B	6010B	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3050B	6020	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3060A	7199	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8081A	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8082	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8151A	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8270C	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	3550B	8270C SIM	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	Gen Prep	9045M	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	300.0	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	314.0	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163609	FD	METHOD	7471A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3050B	6010B	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3050B	6020	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3060A	7199	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8081A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	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
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8151A	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8270C	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	3550B	8270C SIM	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	Gen Prep	9045M	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	300.0	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	314.0	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163613	N	METHOD	7471A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3050B	6010B	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3050B	6020	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3060A	7199	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8081A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8082	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8151A	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8270C	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	3550B	8270C SIM	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	Gen Prep	9045M	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	300.0	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	314.0	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163597	N	METHOD	7471A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3050B	6010B	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3050B	6020	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3060A	7199	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8081A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8082	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8151A	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8270C	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
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	3550B	8270C SIM	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	Gen Prep	9045M	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	300.0	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	314.0	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163604	N	METHOD	7471A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3050B	6010B	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3050B	6020	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3060A	7199	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8081A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8082	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8151A	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8270C	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	3550B	8270C SIM	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	Gen Prep	9045M	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	300.0	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	314.0	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163603	N	METHOD	7471A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3050B	6010B	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3050B	6020	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3060A	7199	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8081A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8082	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8151A	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8270C	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	3550B	8270C SIM	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review *N = 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
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	300.0	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	314.0	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163596	N	METHOD	7471A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3050B	6010B	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3050B	6020	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3060A	7199	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8081A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8082	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8151A	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8270C	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	3550B	8270C SIM	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	Gen Prep	9045M	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	300.0	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	314.0	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163612	N	METHOD	7471A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3050B	6010B	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3050B	6020	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3060A	7199	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8081A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8082	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8151A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8270C	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	3550B	8270C SIM	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	Gen Prep	9045M	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	300.0	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	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
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163610	N	METHOD	7471A	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5DUP	P163610D271838B	DUP	METHOD	300.0	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5MS	P163610R271852B	MS	METHOD	300.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3050B	6010B	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3050B	6020	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3060A	7199	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8081A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8082	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8151A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8270C	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	3550B	8270C SIM	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	Gen Prep	9045M	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	300.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	314.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	6850	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163618	N	METHOD	7471A	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5DUP	P163618D272230B	DUP	METHOD	314.0	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5DUP	P163618D291430B	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5MS	P163618R272254B	MS	METHOD	314.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3050B	6010B	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3050B	6020	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3060A	7199	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8081A	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8082	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8151A	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	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
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	3550B	8270C SIM	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	Gen Prep	9045M	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	300.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	314.0	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163615	N	METHOD	7471A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3050B	6010B	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3050B	6020	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3060A	7199	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8081A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8082	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8151A	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8270C	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	3550B	8270C SIM	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	Gen Prep	9045M	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	300.0	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	314.0	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163614	N	METHOD	7471A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3050B	6010B	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3050B	6020	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3060A	7199	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8081A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8082	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8151A	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8270C	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	3550B	8270C SIM	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	Gen Prep	9045M	III

III = EPA Level 3 Data Review *N = 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
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	300.0	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	314.0	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163617	N	METHOD	7471A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3050B	6010B	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3050B	6020	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3060A	7199	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8081A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8082	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8151A	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8270C	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	3550B	8270C SIM	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	Gen Prep	9045M	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	300.0	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	N	METHOD	314.0	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163616	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: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:48:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-073-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	J	0.84	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-074-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: GENCHEM

Method: 314.0 **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	11.8	J	9.6	MDL	31.8	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
SODIUM	102	J	39.6	MDL	106	PQL	mg/Kg	J	Z

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
TIN	2.42	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.10	J	0.893	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.8	J	39.7	MDL	106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.76	J	0.948	MDL	5.32	PQL	mg/Kg	J	Z
TIN	2.05	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.9	J	42.8	MDL	115	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.34	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.965	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	54.3	J	39.9	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.03	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	0.920	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	62.3	J	39.9	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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	5.27	J	0.952	MDL	5.35	PQL	mg/Kg	J	Z
TIN	1.82	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.05	J	0.898	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.15	J	0.931	MDL	5.23	PQL	mg/Kg	J	Z
TIN	2.40	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.01	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	98.9	J	37.5	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.01	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.32	J	0.845	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.5	J	37.7	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.90	J	0.899	MDL	5.05	PQL	mg/Kg	J	Z
TIN	2.03	J	1.01	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.848	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.88	J	0.923	MDL	5.19	PQL	mg/Kg	J	Z
TIN	2.34	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.49	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.78	J	0.936	MDL	5.26	PQL	mg/Kg	J	Z
TIN	2.39	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	3.77	J	0.944	MDL	5.30	PQL	mg/Kg	J	Z
TIN	2.09	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.891	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	95.9	J	38.5	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.46	J	0.919	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.24	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.82	J	0.868	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	86.4	J	40.4	MDL	108	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.91	J	0.964	MDL	5.42	PQL	mg/Kg	J	Z
TIN	2.45	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.910	MDL	5.42	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	71.0	J	38.4	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.98	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.43	J	0.874	MDL	5.20	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.05	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.937	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
TIN	2.33	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	5.02	J	0.918	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.72	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.64	J	0.938	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.25	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.19	J	0.884	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.44	J	0.947	MDL	5.32	PQL	mg/Kg	J	Z
TIN	3.24	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.67	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.750		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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	0.136	J	0.0625	MDL	0.208	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	7.83		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.771		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.382		0.0375	MDL	0.104	PQL	mg/Kg	J	Q, FD
CHROMIUM	28.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
COBALT	9.00		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	15.1		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	11.3		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	17.1		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	1.22		0.0125	MDL	0.104	PQL	mg/Kg	J	Q, FD

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0434	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0543	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.117	MDL	0.434	PQL	mg/Kg	J	E, A

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.191	J	0.0651	MDL	0.217	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.15		0.0651	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.463		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.902		0.0391	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.0		0.130	MDL	0.434	PQL	mg/Kg	J	Q
COBALT	6.94		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	17.8		0.0717	MDL	0.434	PQL	mg/Kg	J	Q, E
LEAD	50.6		0.0113	MDL	0.217	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.109	MDL	0.434	PQL	mg/Kg	J	Q, E
SILVER	0.147		0.0130	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0478	MDL	0.478	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.876		0.0597	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.129	MDL	0.478	PQL	mg/Kg	J	E, A

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0717	MDL	0.239	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	7.83		0.0717	MDL	0.478	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.785		0.0191	MDL	0.119	PQL	mg/Kg	J	Q, E
CADMIUM	0.461		0.0430	MDL	0.119	PQL	mg/Kg	J	Q
CHROMIUM	33.4		0.143	MDL	0.478	PQL	mg/Kg	J	Q
COBALT	9.86		0.0239	MDL	0.119	PQL	mg/Kg	J	Q, E
COPPER	18.1		0.0789	MDL	0.478	PQL	mg/Kg	J	Q, E
LEAD	19.8		0.0124	MDL	0.239	PQL	mg/Kg	J	Q, E
NICKEL	22.2		0.119	MDL	0.478	PQL	mg/Kg	J	Q, E
SILVER	0.0806	J	0.0143	MDL	0.119	PQL	mg/Kg	J	Z, Q

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.584		0.0550	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.119	MDL	0.440	PQL	mg/Kg	J	E, A

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0660	U	0.0660	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	5.90		0.0660	MDL	0.440	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.546		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.255		0.0396	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.132	MDL	0.440	PQL	mg/Kg	J	Q
COBALT	7.18		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	12.7		0.0726	MDL	0.440	PQL	mg/Kg	J	Q, E
LEAD	20.2		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	15.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E
SILVER	0.0557	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
CADMIUM	0.192		0.0393	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.471		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.118	MDL	0.436	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-040-SIV-SD-0.0-0.5 **Collected:** 12/13/2010 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	0.0654	U	0.0654	MDL	0.218	PQL	mg/Kg	R	Q
ARSENIC	4.31		0.0654	MDL	0.436	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.503		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	20.5		0.131	MDL	0.436	PQL	mg/Kg	J	Q
COBALT	6.78		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	9.21		0.0720	MDL	0.436	PQL	mg/Kg	J	Q, E
LEAD	10.8		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	13.0		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E
SILVER	0.0217	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0935	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.114	MDL	0.423	PQL	mg/Kg	J	E, A

Sample ID: SL-071-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:09:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0634	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.17		0.0634	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.693		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.210		0.0380	MDL	0.106	PQL	mg/Kg	J	Q, FD
CHROMIUM	25.5		0.127	MDL	0.423	PQL	mg/Kg	J	Q
COBALT	7.36		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	11.9		0.0697	MDL	0.423	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.18		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E
SILVER	0.241		0.0127	MDL	0.106	PQL	mg/Kg	J	Q, FD

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0406	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.694		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.110	MDL	0.406	PQL	mg/Kg	J	E, A

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0917	J	0.0609	MDL	0.203	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.07		0.0609	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.676		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.411		0.0366	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	7.26		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	12.6		0.0670	MDL	0.406	PQL	mg/Kg	J	Q, E
LEAD	13.0		0.0106	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	14.5		0.102	MDL	0.406	PQL	mg/Kg	J	Q, E
SILVER	3.17		0.0122	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.956		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	153		0.111	MDL	0.412	PQL	mg/Kg	J	E, A

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.02		0.0618	MDL	0.412	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.291		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.2		0.124	MDL	0.412	PQL	mg/Kg	J	Q
COBALT	7.93		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	14.5		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E
LEAD	11.2		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	17.9		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E
SILVER	0.298		0.0124	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.315	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.725		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.116	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.0647	U	0.0647	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	6.82		0.0647	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.723		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.305		0.0388	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	29.6		0.129	MDL	0.431	PQL	mg/Kg	J	Q
COBALT	7.36		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	16.8		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	17.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.405		0.0129	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.504		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.115	MDL	0.425	PQL	mg/Kg	J	E, A

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0842	J	0.0638	MDL	0.213	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.92		0.0638	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.634		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.211		0.0383	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	31.1		0.128	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	8.21		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	15.5		0.0701	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	7.96		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	19.7		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0363	J	0.0128	MDL	0.106	PQL	mg/Kg	J	Z, Q

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
MOLYBDENUM	0.657		0.0540	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.117	MDL	0.432	PQL	mg/Kg	J	E, A

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.149	J	0.0649	MDL	0.216	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	6.22		0.0649	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.754		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.865		0.0389	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.130	MDL	0.432	PQL	mg/Kg	J	Q
COBALT	11.3		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	18.9		0.0713	MDL	0.432	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Laboratory: LL

Lab Reporting Batch ID: DE036

eQAPP Name: CDM_SSFL_110509

EDD Filename: DE036_v1

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	17.7		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	21.0		0.108	MDL	0.432	PQL	mg/Kg	J	Q, E
SILVER	1.65		0.0130	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.958		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	172		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.249		0.0632	MDL	0.211	PQL	mg/Kg	J	Q, Q, E
ARSENIC	10.2		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	1.69		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	41.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	10.0		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	25.9		0.0695	MDL	0.421	PQL	mg/Kg	J	Q, E
LEAD	77.7		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	23.0		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.243		0.0126	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.203	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.552		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0656	U	0.0656	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	5.67		0.0656	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.588		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.244		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	23.6		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	6.96		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	12.2		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	7.40		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	13.9		0.109	MDL	0.438	PQL	mg/Kg	J	Q, E
SILVER	0.0361	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.902		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.114	MDL	0.420	PQL	mg/Kg	J	E, A

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0631	U	0.0631	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	5.85		0.0631	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.729		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.287		0.0378	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.9		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	7.16		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	10.5		0.0694	MDL	0.420	PQL	mg/Kg	J	Q, E
LEAD	9.17		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E
NICKEL	13.9		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0435	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	11.2		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* REA4 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.287	MDL	1.06	PQL	mg/Kg	J	E, A

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.297		0.0637	MDL	0.212	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.50		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.654		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.664		0.0382	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	38.6		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	7.96		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	34.0		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0831	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.320	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.606		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0680	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	8.56		0.0669	MDL	0.446	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.867		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.285		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	43.1		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	12.3		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	12.7		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	23.3		0.111	MDL	0.446	PQL	mg/Kg	J	Q, E
SILVER	0.0392	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.273	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.455		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.120	MDL	0.446	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0708	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	8.89		0.0669	MDL	0.446	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.976		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.252		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	45.8		0.134	MDL	0.446	PQL	mg/Kg	J	Q
COBALT	14.0		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	19.4		0.0736	MDL	0.446	PQL	mg/Kg	J	Q, E
LEAD	13.6		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E
NICKEL	23.7		0.111	MDL	0.446	PQL	mg/Kg	J	Q, E
SILVER	0.0321	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0548	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0657	U	0.0657	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.15		0.0657	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.869		0.0175	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.200		0.0394	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	30.4		0.131	MDL	0.438	PQL	mg/Kg	J	Q
COBALT	8.20		0.0219	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	13.1		0.0723	MDL	0.438	PQL	mg/Kg	J	Q, E
LEAD	9.99		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	18.1		0.110	MDL	0.438	PQL	mg/Kg	J	Q, E
SILVER	0.0876	J	0.0131	MDL	0.110	PQL	mg/Kg	J	Z, Q

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0417	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0521	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.113	MDL	0.417	PQL	mg/Kg	J	E, A

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0625	MDL	0.208	PQL	mg/Kg	J	Z, Q, Q, E
ARSENIC	5.85		0.0625	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.538		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.377		0.0375	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	27.9		0.125	MDL	0.417	PQL	mg/Kg	J	Q
COBALT	8.08		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	14.7		0.0688	MDL	0.417	PQL	mg/Kg	J	Q, E
LEAD	10.6		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	16.9		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0265	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z, Q

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
MOLYBDENUM	0.834		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.114	MDL	0.422	PQL	mg/Kg	J	E, A

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.120	J	0.0633	MDL	0.211	PQL	mg/Kg	J	Z, Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	8.79		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.915		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.902		0.0380	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	9.42		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E
COPPER	24.2		0.0696	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	15.3		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	24.4		0.105	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	3.63		0.0127	MDL	0.105	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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	0.76	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.21	U	0.21	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-072-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:48:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	0.86	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.91	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 2:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0380	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *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	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0049	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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	0.0039	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0873	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-073-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0132	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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
MERCURY	0.0204	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0066	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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	0.0142	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0414	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0086	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0341	J	0.0028	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

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

Method Category: SVOA
Method: 8081A **Matrix:** SO

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.29	J	0.19	MDL	0.92	PQL	ug/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	0.24	U	0.24	MDL	0.36	PQL	ug/Kg	R	Q
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.74	J	0.33	MDL	0.90	PQL	ug/Kg	J	Z

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

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
AROCLOR 1254	2.1		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	3.9		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.6	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	37	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	37	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	170		11	MDL	37	PQL	ug/Kg	J	L

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	2.4	U	2.4	MDL	7.9	PQL	ug/Kg	UJ	L
Aroclor 5442	2.4	U	2.4	MDL	7.9	PQL	ug/Kg	UJ	L
Aroclor 5460	6.7	J	2.4	MDL	7.9	PQL	ug/Kg	J	Z, L

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	8.4	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z
AROCLOR 1260	5.3	J	1.8	MDL	9.4	PQL	ug/Kg	J	Z
Aroclor 5432	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	9.3	J	5.6	MDL	18	PQL	ug/Kg	J	Z, L

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	4.2		1.1	MDL	3.6	PQL	ug/Kg	J	L

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	6.7		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1254	13		0.35	MDL	1.8	PQL	ug/Kg	J	FD
AROCLOR 1260	8.5		0.35	MDL	1.8	PQL	ug/Kg	J	FD
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	4.3		1.1	MDL	3.5	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.8		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	22		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	27		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	4.5	J	1.8	MDL	9.3	PQL	ug/Kg	J	Z
AROCLOR 1254	4.8	J	1.8	MDL	9.3	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	8.9	J	5.4	MDL	18	PQL	ug/Kg	J	Z, L

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES *Dilution:* 1000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L
Aroclor 5442	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L
Aroclor 5460	1100	U	1100	MDL	3600	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	5.2		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1254	3.6		0.35	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.7	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	6.6	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	6.6	J	5.4	MDL	18	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6	U	5.6	MDL	19	PQL	ug/Kg	UJ	L

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	57	U	57	MDL	190	PQL	ug/Kg	UJ	L
Aroclor 5442	57	U	57	MDL	190	PQL	ug/Kg	UJ	L
Aroclor 5460	57	U	57	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.3	U	5.3	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	36	PQL	ug/Kg	UJ	L
Aroclor 5460	110		11	MDL	36	PQL	ug/Kg	J	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 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
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *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	0.33		0.091	MDL	0.19	PQL	ug/Kg	J	S
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	3.0	J	1.4	MDL	4.3	PQL	ug/Kg	J	Z
DICAMBA	0.78	J	0.48	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.69	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.4	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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-D	1.9	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	230	J	83	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	130	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	4.3	U	4.3	MDL	13	PQL	ug/Kg	R	L

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L
MCPA	250	J	83	MDL	270	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.088	J	0.088	MDL	0.18	PQL	ug/Kg	J	Z
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.45	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 ***Collected:*** 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	30	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	60	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	18	MDL	350	PQL	ug/Kg	J	Z, FD
CHRYSENE	46	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	64	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	70	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SED-029-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 11:52:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	110	J	18	MDL	370	PQL	ug/Kg	J	Z
Butylbenzylphthalate	31	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 11:13:00 ***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	120	U	120	MDL	400	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 9:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	19	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	18	U	18	MDL	360	PQL	ug/Kg	UJ	FD

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *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	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	39	J	18	MDL	350	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	41	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	18	MDL	350	PQL	ug/Kg	J	Z
PYRENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *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	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	25	J	18	MDL	360	PQL	ug/Kg	J	Z
FLUORANTHENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	23	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	330	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *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	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	380	PQL	ug/Kg	UJ	L

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	350	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	26	J	18	MDL	370	PQL	ug/Kg	J	Z
PYRENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD
2-METHYLNAPHTHALENE	0.87	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.75	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
ANTHRACENE	1.6	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
DIBENZO(A,H)ANTHRACENE	2.6		0.71	MDL	1.8	PQL	ug/Kg	J	FD
Di-n-butylphthalate	6.7	J	6.4	MDL	19	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.4	J	3.7	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	9.6	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	9.6	J	7.4	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	97	J	66	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *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	1.6	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.3	J	7.2	MDL	22	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.83	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	0.89	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.43	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 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
ANTHRACENE	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.79	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.73	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-071-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 10:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
2-METHYLNAPHTHALENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	18		0.36	MDL	1.8	PQL	ug/Kg	J	Q, FD
ANTHRACENE	6.9		0.36	MDL	1.8	PQL	ug/Kg	J	FD
BENZO(A)ANTHRACENE	73		0.71	MDL	1.8	PQL	ug/Kg	J	Q
BENZO(K)FLUORANTHENE	91		0.71	MDL	1.8	PQL	ug/Kg	J	Q
DIBENZO(A,H)ANTHRACENE	55		0.71	MDL	1.8	PQL	ug/Kg	J	Q, FD
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD
NAPHTHALENE	3.3		0.71	MDL	1.8	PQL	ug/Kg	J	FD
PHENANTHRENE	54		0.71	MDL	1.8	PQL	ug/Kg	J	Q
PYRENE	85		0.71	MDL	1.8	PQL	ug/Kg	J	Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:48:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.62	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:30:00 ***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(A)ANTHRACENE	13	J	7.0	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	16	J	7.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	12	J	7.0	MDL	18	PQL	ug/Kg	J	Z
PYRENE	17	J	7.0	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.58	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.0	J	6.5	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.80	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
NAPHTHALENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *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(A)ANTHRACENE	9.7	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	11	J	7.4	MDL	18	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	16	J	7.4	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	17	J	3.7	MDL	18	PQL	ug/Kg	J	Z
FLUORANTHENE	16	J	7.4	MDL	18	PQL	ug/Kg	J	Z
PYRENE	13	J	7.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *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	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.78	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.45	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *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	0.78	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
BENZO(A)PYRENE	0.88	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.96	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.91	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *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	0.89	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.96	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.40	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.7	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.6	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE036

Method Blank Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory:** LL

EDD Filename: DE036_v1 **eQAPP Name:** CDM_SSFL_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108DB222357	12/20/2010 11:57:00 PM	ALUMINUM CALCIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 12.8 mg/Kg 1.08 mg/Kg 0.0650 mg/Kg 1.20 mg/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5
P35408EB221919	12/21/2010 7:19:00 PM	ALUMINUM CALCIUM PHOSPHORUS TIN	5.43 mg/Kg 12.3 mg/Kg 1.70 mg/Kg 1.37 mg/Kg	SL-236-SA5B-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP04-SA5B-QC-121310(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SED-029-SIV-SD-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SED-030-SIV-SD-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SED-031-SIV-SD-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SED-040-SIV-SD-0.0-0.5(RES)	TIN	1.82 mg/Kg	1.82U mg/Kg
SL-071-SA5B-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-072-SA5B-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-073-SA5B-SS-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SL-074-SA5B-SS-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-076-SA5B-SS-0.0-0.5(RES)	TIN	2.39 mg/Kg	2.39U mg/Kg
SL-078-SA5B-SS-0.0-0.5(RES)	TIN	2.09 mg/Kg	2.09U mg/Kg
SL-083-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-084-SA5B-SS-0.0-0.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-089-SA5B-SS-0.0-0.5(RES)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-092-SA5B-SS-0.0-0.5(RES)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-103-SA5B-SS-0.0-0.5(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-139-SA5B-SS-0.0-0.5(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-236-SA5B-SS-0.0-0.5(REA3)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-301-SA5B-SS-0.0-0.5(RES)	TIN	3.24 mg/Kg	3.24U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126BB220903A	12/26/2010 9:03:00 AM	COPPER	0.242 mg/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BlankB241840A	12/21/2010 6:40:00 PM	PERCHLORATE	7.0 ug/Kg	SL-071-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLH35B261033	12/23/2010 10:33:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	8.2 ug/Kg	DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS (SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	FLUORIDE	78	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	4,4'-DDT ALDRIN	- 132	245 -	10.00-176.00 16.00-126.00	- -	4,4'-DDT ALDRIN	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	DIELDRIN ENDRIN HEPTACHLOR	0 0 0	- - -	19.00-154.00 11.00-149.00 13.00-126.00	200 (50.00) 200 (50.00) 200 (50.00)	DIELDRIN ENDRIN HEPTACHLOR	J(all detects) R(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-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	2,4,5-T 2,4-DB DICAMBA	- - 154	- - 127	25.00-132.00 20.00-170.00 33.00-120.00	68 (35.00) 62 (50.00) -	2,4,5-T 2,4-DB DICAMBA	J(all detects)
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	DALAPON	-	0	12.00-86.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL BENZOIC ACID	- -	- -	20.00-143.00 10.00-173.00	47 (30.00) 31 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	BENZIDINE	16	20	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	BENZO(A)ANTHRACENE	-87	-90	39.00-144.00	-	BENZO(A)ANTHRACENE	J(all detects) R(all non-detects)
	BENZO(A)PYRENE	-461	-441	34.00-156.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-1536	-1472	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-401	-387	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-148	-137	42.00-144.00	-	BENZO(K)FLUORANTHENE	Fluoranthene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(123-cd)pyrene, Benzo(ghi)perylene No Qual, >4x
	CHRYSENE	-1058	-999	29.00-156.00	-	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-49	-47	41.00-130.00	-	DIBENZO(A,H)ANTHRACENE	
	FLUORANTHENE	-326	-323	26.00-166.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-643	-617	21.00-143.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-43	-40	12.00-165.00	-	PHENANTHRENE	
	PYRENE	-111	-113	15.00-153.00	-	PYRENE	
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	ACENAPHTHYLENE	49	52	55.00-126.00	-	ACENAPHTHYLENE	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-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	ARSENIC	188	166	75.00-125.00	-	ARSENIC	
	BERYLLIUM	146	142	75.00-125.00	-	BERYLLIUM	
	CADMIUM	133	139	75.00-125.00	-	CADMIUM	
	CHROMIUM	160	157	75.00-125.00	-	CHROMIUM	
	COBALT	127	126	75.00-125.00	-	COBALT	
	COPPER	138	151	75.00-125.00	-	COPPER	
	LEAD	179	193	75.00-125.00	-	LEAD	
	NICKEL	136	143	75.00-125.00	-	NICKEL	
	SILVER	-	129	75.00-125.00	-	SILVER	
	VANADIUM	204	201	75.00-125.00	-	VANADIUM	
	ZINC	222	321	75.00-125.00	-	ZINC	J(all detects) V, Zn No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS **SL-071-SA5B-SS-0.0-0.5MSD** (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	ANTIMONY	40	20	75.00-125.00	56 (20.00)	ANTIMONY	J(all detects) R(all non-detects)
SL-071-SA5B-SS-0.0-0.5MS **SL-071-SA5B-SS-0.0-0.5MSD** (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	MOLYBDENUM	134	134	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-071-SA5B-SS-0.0-0.5MS **SL-071-SA5B-SS-0.0-0.5MSD** (DUP04-SA5B-QC-121310 SED-029-SIV-SD-0.0-0.5 SED-030-SIV-SD-0.0-0.5 SED-031-SIV-SD-0.0-0.5 SED-040-SIV-SD-0.0-0.5 SL-071-SA5B-SS-0.0-0.5 SL-072-SA5B-SS-0.0-0.5 SL-073-SA5B-SS-0.0-0.5 SL-074-SA5B-SS-0.0-0.5 SL-076-SA5B-SS-0.0-0.5 SL-078-SA5B-SS-0.0-0.5 SL-083-SA5B-SS-0.0-0.5 SL-084-SA5B-SS-0.0-0.5 SL-086-SA5B-SS-0.0-0.5 SL-089-SA5B-SS-0.0-0.5 SL-092-SA5B-SS-0.0-0.5 SL-103-SA5B-SS-0.0-0.5 SL-139-SA5B-SS-0.0-0.5 SL-236-SA5B-SS-0.0-0.5 SL-301-SA5B-SS-0.0-0.5)	BARIUM	313	247	75.00-125.00	-	BARIUM	No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_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-071-SA5B-SS-0.0-0.5MS	ALUMINUM	1507	1477	75.00-125.00	-	ALUMINUM	
SL-071-SA5B-SS-0.0-0.5MSD	CALCIUM	167	189	75.00-125.00	-	CALCIUM	
(DUP04-SA5B-QC-121310	IRON	1042	1161	75.00-125.00	-	IRON	
SED-029-SIV-SD-0.0-0.5	MAGNESIUM	265	220	75.00-125.00	-	MAGNESIUM	
SED-030-SIV-SD-0.0-0.5	MANGANESE	149	139	75.00-125.00	-	MANGANESE	
SED-031-SIV-SD-0.0-0.5							
SED-040-SIV-SD-0.0-0.5							
SL-071-SA5B-SS-0.0-0.5							
SL-072-SA5B-SS-0.0-0.5							
SL-073-SA5B-SS-0.0-0.5							
SL-074-SA5B-SS-0.0-0.5							No Qual, >4x
SL-076-SA5B-SS-0.0-0.5							
SL-078-SA5B-SS-0.0-0.5							
SL-083-SA5B-SS-0.0-0.5							
SL-084-SA5B-SS-0.0-0.5							
SL-086-SA5B-SS-0.0-0.5							
SL-089-SA5B-SS-0.0-0.5							
SL-092-SA5B-SS-0.0-0.5							
SL-103-SA5B-SS-0.0-0.5							
SL-139-SA5B-SS-0.0-0.5							
SL-301-SA5B-SS-0.0-0.5)							
SL-071-SA5B-SS-0.0-0.5MS	TITANIUM	445	352	75.00-125.00	-	TITANIUM	
SL-071-SA5B-SS-0.0-0.5MSD							
(DUP04-SA5B-QC-121310							
SED-029-SIV-SD-0.0-0.5							
SED-030-SIV-SD-0.0-0.5							
SED-031-SIV-SD-0.0-0.5							
SED-040-SIV-SD-0.0-0.5							
SL-071-SA5B-SS-0.0-0.5							
SL-072-SA5B-SS-0.0-0.5							
SL-073-SA5B-SS-0.0-0.5							
SL-074-SA5B-SS-0.0-0.5							No Qual, >4x
SL-076-SA5B-SS-0.0-0.5							
SL-078-SA5B-SS-0.0-0.5							
SL-083-SA5B-SS-0.0-0.5							
SL-084-SA5B-SS-0.0-0.5							
SL-086-SA5B-SS-0.0-0.5							
SL-089-SA5B-SS-0.0-0.5							
SL-092-SA5B-SS-0.0-0.5							
SL-103-SA5B-SS-0.0-0.5							
SL-139-SA5B-SS-0.0-0.5							
SL-301-SA5B-SS-0.0-0.5)							

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (SL-071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	FLUORIDE	24	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP (DUP04-SA5B-QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	Zirconium	52	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP	ANTIMONY	200	20.00	
(DUP04-SA5B-QC-121310	ARSENIC	23	20.00	
SED -029-SIV-SD-0.0-0.5	BARIUM	28	20.00	
SED -030-SIV-SD-0.0-0.5	BERYLLIUM	43	20.00	
SED -031-SIV-SD-0.0-0.5	CADMIUM	25	20.00	
SED -040-SIV-SD-0.0-0.5	COBALT	22	20.00	
SL -071-SA5B-SS-0.0-0.5	COPPER	33	20.00	
SL -072-SA5B-SS-0.0-0.5	LEAD	37	20.00	
SL -073-SA5B-SS-0.0-0.5	NICKEL	31	20.00	
SL -074-SA5B-SS-0.0-0.5	SILVER	47	20.00	
SL -076-SA5B-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL -078-SA5B-SS-0.0-0.5				
SL -083-SA5B-SS-0.0-0.5				Sb, Cd, Ag
SL -084-SA5B-SS-0.0-0.5				No Qual
SL -086-SA5B-SS-0.0-0.5				OK by difference
SL -089-SA5B-SS-0.0-0.5				
SL -092-SA5B-SS-0.0-0.5				
SL -103-SA5B-SS-0.0-0.5				
SL -139-SA5B-SS-0.0-0.5				
SL -236-SA5B-SS-0.0-0.5				
SL -301-SA5B-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-071-SA5B-SS-0.0-0.5DUP	HEXAVALENT CHROMIUM	200	20.00	
(DUP04-SA5B-QC-121310				
SED -029-SIV-SD-0.0-0.5				
SED -030-SIV-SD-0.0-0.5				
SED -031-SIV-SD-0.0-0.5				
SED -040-SIV-SD-0.0-0.5				
SL -071-SA5B-SS-0.0-0.5				
SL -072-SA5B-SS-0.0-0.5				
SL -073-SA5B-SS-0.0-0.5				
SL -074-SA5B-SS-0.0-0.5				No Qual
SL -076-SA5B-SS-0.0-0.5				OK by difference
SL -078-SA5B-SS-0.0-0.5				
SL -083-SA5B-SS-0.0-0.5				
SL -084-SA5B-SS-0.0-0.5				
SL -086-SA5B-SS-0.0-0.5				
SL -089-SA5B-SS-0.0-0.5				
SL -092-SA5B-SS-0.0-0.5				
SL -103-SA5B-SS-0.0-0.5				
SL -139-SA5B-SS-0.0-0.5				
SL -236-SA5B-SS-0.0-0.5				
SL -301-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSQ241847A (SL-071-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5)	PERCHLORATE	120	-	85.00-115.00	-	PERCHLORATE	J (all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03510AQ240131A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	METHOXYCHLOR	130	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03511AY241835A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B-SS-0.0-0.5 SL -072-SA5B-SS-0.0-0.5 SL -073-SA5B-SS-0.0-0.5 SL -074-SA5B-SS-0.0-0.5 SL -076-SA5B-SS-0.0-0.5 SL -078-SA5B-SS-0.0-0.5 SL -083-SA5B-SS-0.0-0.5 SL -084-SA5B-SS-0.0-0.5 SL -086-SA5B-SS-0.0-0.5 SL -089-SA5B-SS-0.0-0.5 SL -092-SA5B-SS-0.0-0.5 SL -103-SA5B-SS-0.0-0.5 SL -139-SA5B-SS-0.0-0.5 SL -236-SA5B-SS-0.0-0.5 SL -301-SA5B-SS-0.0-0.5)	Aroclor 5442	-	74	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_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
P03557AQ241952A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B -SS-0.0-0.5 SL -072-SA5B -SS-0.0-0.5 SL -073-SA5B -SS-0.0-0.5 SL -074-SA5B -SS-0.0-0.5 SL -076-SA5B -SS-0.0-0.5 SL -078-SA5B -SS-0.0-0.5 SL -083-SA5B -SS-0.0-0.5 SL -084-SA5B -SS-0.0-0.5 SL -086-SA5B -SS-0.0-0.5 SL -089-SA5B -SS-0.0-0.5 SL -092-SA5B -SS-0.0-0.5 SL -103-SA5B -SS-0.0-0.5 SL -139-SA5B -SS-0.0-0.5 SL -236-SA5B -SS-0.0-0.5 SL -301-SA5B -SS-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LGLCSQ261059 (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B -SS-0.0-0.5 SL -072-SA5B -SS-0.0-0.5 SL -073-SA5B -SS-0.0-0.5 SL -074-SA5B -SS-0.0-0.5 SL -076-SA5B -SS-0.0-0.5 SL -078-SA5B -SS-0.0-0.5 SL -083-SA5B -SS-0.0-0.5 SL -084-SA5B -SS-0.0-0.5 SL -086-SA5B -SS-0.0-0.5 SL -089-SA5B -SS-0.0-0.5 SL -092-SA5B -SS-0.0-0.5 SL -103-SA5B -SS-0.0-0.5 SL -139-SA5B -SS-0.0-0.5 SL -236-SA5B -SS-0.0-0.5 SL -301-SA5B -SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	31	-	38.00-105.00	-	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_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*
P35126BQ220906A (DUP04 -SA5B -QC-121310 SED -029-SIV-SD-0.0-0.5 SED -030-SIV-SD-0.0-0.5 SED -031-SIV-SD-0.0-0.5 SED -040-SIV-SD-0.0-0.5 SL -071-SA5B -SS-0.0-0.5 SL -072-SA5B -SS-0.0-0.5 SL -073-SA5B -SS-0.0-0.5 SL -074-SA5B -SS-0.0-0.5 SL -076-SA5B -SS-0.0-0.5 SL -078-SA5B -SS-0.0-0.5 SL -083-SA5B -SS-0.0-0.5 SL -084-SA5B -SS-0.0-0.5 SL -086-SA5B -SS-0.0-0.5 SL -089-SA5B -SS-0.0-0.5 SL -092-SA5B -SS-0.0-0.5 SL -103-SA5B -SS-0.0-0.5 SL -139-SA5B -SS-0.0-0.5 SL -236-SA5B -SS-0.0-0.5 SL -301-SA5B -SS-0.0-0.5)	ANTIMONY	55	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-139-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	251	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
SED-031-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	139	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-072-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-074-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	131	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-086-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-089-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	160	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-103-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-236-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	138	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-301-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	152	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-029-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	173	36.00-156.00	All Target Analytes	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MOISTURE	6.3	5.9	7		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
FLUORIDE	3.4	4.3	23	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
ALUMINUM	14400	14200	1	50.00	
BORON	4.15	5.32	25	50.00	
CALCIUM	2980	3040	2	50.00	
IRON	20700	20900	1	50.00	
LITHIUM	23.9	23.4	2	50.00	
MAGNESIUM	4490	4460	1	50.00	
MANGANESE	248	248	0	50.00	
PHOSPHORUS	377	394	4	50.00	No Qualifiers Applied
POTASSIUM	2680	2580	4	50.00	
SODIUM	109	102	7	50.00	
STRONTIUM	16.7	17.2	3	50.00	
TIN	2.40	2.42	1	50.00	
TITANIUM	1130	1150	2	50.00	
Zirconium	1.01	1.10	9	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
ANTIMONY	0.102	0.136	29	50.00	
ARSENIC	6.17	7.83	24	50.00	
BARIUM	120	135	12	50.00	
BERYLLIUM	0.693	0.771	11	50.00	
CHROMIUM	25.5	28.8	12	50.00	
COBALT	7.36	9.00	20	50.00	
COPPER	11.9	15.1	24	50.00	
LEAD	9.18	11.3	21	50.00	No Qualifiers Applied
MOLYBDENUM	0.620	0.750	19	50.00	
NICKEL	14.8	17.1	14	50.00	
SELENIUM	0.0935	0.152	48	50.00	
THALLIUM	0.356	0.324	9	50.00	
VANADIUM	44.9	50.3	11	50.00	
ZINC	98.5	128	26	50.00	
CADMIUM	0.210	0.382	58	50.00	J(all detects)
SILVER	0.241	1.22	134	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
HEXAVALENT CHROMIUM	1.1 U	0.76	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MERCURY	0.334	0.227	38	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
Aroclor 5460	4.3	2.6	49	50.00	No Qualifiers Applied
AROCLOR 1248	6.7	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1254	13	2.1	144	50.00	
AROCLOR 1260	8.5	3.9	74	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
2-METHYLNAPHTHALENE	0.74	0.87	16	50.00	No Qualifiers Applied
1-METHYLNAPHTHALENE	1.8 U	0.74	200	50.00	J(all detects) UJ(all non-detects)
ACENAPHTHYLENE	18	0.75	184	50.00	
ANTHRACENE	6.9	1.6	125	50.00	
DIBENZO(A,H)ANTHRACENE	55	2.6	182	50.00	
Di-n-butylphthalate	19 U	6.7	200	50.00	
NAPHTHALENE	3.3	1.1	100	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
BIS(2-ETHYLHEXYL)PHTHALATE	360 U	29	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
PH	7.67	7.34	4	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
Oxidation Reduction Potential	462	454	2		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5B-SS-0.0-0.5	FLUORIDE	J	0.87	1.1	PQL	mg/Kg	J (all detects)

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA5B-SS-0.0-0.5	PERCHLORATE	J	11.8	31.8	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	SODIUM	J	102	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.42	10.6	PQL	mg/Kg	
	Zirconium	J	1.10	5.31	PQL	mg/Kg	
SED-029-SIV-SD-0.0-0.5	BORON	J	4.76	5.32	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.8	106	PQL	mg/Kg	
	TIN	J	2.05	10.6	PQL	mg/Kg	
SED-030-SIV-SD-0.0-0.5	SODIUM	J	78.9	115	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	11.5	PQL	mg/Kg	
	Zirconium	J	1.44	5.74	PQL	mg/Kg	
SED-031-SIV-SD-0.0-0.5	SODIUM	J	54.3	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.03	10.7	PQL	mg/Kg	
	Zirconium	J	0.920	5.34	PQL	mg/Kg	
SED-040-SIV-SD-0.0-0.5	BORON	J	5.27	5.35	PQL	mg/Kg	J (all detects)
	SODIUM	J	62.3	107	PQL	mg/Kg	
	TIN	J	1.82	10.7	PQL	mg/Kg	
	Zirconium	J	1.05	5.35	PQL	mg/Kg	
SL-071-SA5B-SS-0.0-0.5	BORON	J	4.15	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	10.5	PQL	mg/Kg	
	Zirconium	J	1.01	5.23	PQL	mg/Kg	
SL-072-SA5B-SS-0.0-0.5	SODIUM	J	98.9	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.20	10.1	PQL	mg/Kg	
	Zirconium	J	1.32	5.03	PQL	mg/Kg	
SL-073-SA5B-SS-0.0-0.5	BORON	J	4.90	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.5	101	PQL	mg/Kg	
	TIN	J	2.03	10.1	PQL	mg/Kg	
	Zirconium	J	1.75	5.05	PQL	mg/Kg	
SL-074-SA5B-SS-0.0-0.5	BORON	J	4.88	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	2.34	10.4	PQL	mg/Kg	
	Zirconium	J	1.49	5.19	PQL	mg/Kg	
SL-076-SA5B-SS-0.0-0.5	BORON	J	2.78	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.39	10.5	PQL	mg/Kg	
SL-078-SA5B-SS-0.0-0.5	BORON	J	3.77	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.09	10.6	PQL	mg/Kg	
	Zirconium	J	1.26	5.30	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 Laboratory: LL

EDD Filename: DE036_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA5B-SS-0.0-0.5	BORON	J	4.46	5.16	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.9	103	PQL	mg/Kg	
	TIN	J	2.24	10.3	PQL	mg/Kg	
	Zirconium	J	1.82	5.16	PQL	mg/Kg	
SL-084-SA5B-SS-0.0-0.5	BORON	J	3.91	5.42	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.4	108	PQL	mg/Kg	
	TIN	J	2.45	10.8	PQL	mg/Kg	
	Zirconium	J	1.39	5.42	PQL	mg/Kg	
SL-086-SA5B-SS-0.0-0.5	SODIUM	J	71.0	103	PQL	mg/Kg	J (all detects)
	TIN	J	1.98	10.3	PQL	mg/Kg	
	Zirconium	J	1.95	5.15	PQL	mg/Kg	
SL-089-SA5B-SS-0.0-0.5	TIN	J	2.20	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.43	5.20	PQL	mg/Kg	
SL-092-SA5B-SS-0.0-0.5	TIN	J	2.05	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.57	PQL	mg/Kg	
SL-103-SA5B-SS-0.0-0.5	TIN	J	2.33	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.02	5.47	PQL	mg/Kg	
SL-139-SA5B-SS-0.0-0.5	TIN	J	2.72	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.64	5.58	PQL	mg/Kg	
SL-236-SA5B-SS-0.0-0.5	TIN	J	2.25	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.19	5.26	PQL	mg/Kg	
SL-301-SA5B-SS-0.0-0.5	BORON	J	4.44	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	3.24	10.6	PQL	mg/Kg	
	Zirconium	J	1.67	5.32	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	ANTIMONY	J	0.136	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.152	0.417	PQL	mg/Kg	
SED-029-SIV-SD-0.0-0.5	ANTIMONY	J	0.191	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.434	PQL	mg/Kg	
SED-030-SIV-SD-0.0-0.5	ANTIMONY	J	0.115	0.239	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.209	0.478	PQL	mg/Kg	
	SILVER	J	0.0806	0.119	PQL	mg/Kg	
SED-031-SIV-SD-0.0-0.5	SELENIUM	J	0.151	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0557	0.110	PQL	mg/Kg	
SED-040-SIV-SD-0.0-0.5	SELENIUM	J	0.129	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0217	0.109	PQL	mg/Kg	
SL-071-SA5B-SS-0.0-0.5	ANTIMONY	J	0.102	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0935	0.423	PQL	mg/Kg	
SL-072-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0917	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.406	PQL	mg/Kg	
SL-073-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0768	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.412	PQL	mg/Kg	
SL-074-SA5B-SS-0.0-0.5	SELENIUM	J	0.315	0.431	PQL	mg/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0842	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.425	PQL	mg/Kg	
	SILVER	J	0.0363	0.106	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J J	0.149 0.179	0.216 0.432	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	SELENIUM	J	0.176	0.421	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.203 0.0361	0.438 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.140 0.0435	0.420 0.105	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.123 0.0831	0.424 0.106	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-092-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.0680 0.320 0.0392	0.223 0.446 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-103-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.0708 0.273 0.0321	0.223 0.446 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-139-SA5B-SS-0.0-0.5	SELENIUM SILVER	J J	0.152 0.0876	0.438 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.152 0.160 0.0265	0.208 0.417 0.104	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-301-SA5B-SS-0.0-0.5	ANTIMONY SELENIUM	J J	0.120 0.164	0.211 0.422	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.2	PQL	mg/Kg	J (all detects)
SED-040-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.91	1.1	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-092-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-139-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-029-SIV-SD-0.0-0.5	MERCURY	J	0.0380	0.110	PQL	mg/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	MERCURY	J	0.0222	0.113	PQL	mg/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	MERCURY	J	0.0049	0.105	PQL	mg/Kg	J (all detects)
SED-040-SIV-SD-0.0-0.5	MERCURY	J	0.0039	0.107	PQL	mg/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	MERCURY	J	0.0873	0.100	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SS-0.0-0.5	MERCURY	J	0.0132	0.0993	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	MERCURY	J	0.0204	0.104	PQL	mg/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	MERCURY	J	0.0066	0.101	PQL	mg/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	MERCURY	J	0.0142	0.108	PQL	mg/Kg	J (all detects)
SL-083-SA5B-SS-0.0-0.5	MERCURY	J	0.0414	0.101	PQL	mg/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	MERCURY	J	0.0086	0.106	PQL	mg/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	MERCURY	J	0.0098	0.101	PQL	mg/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	MERCURY	J	0.0341	0.0993	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-029-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.29	0.92	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	BETA-BHC	J	0.74	0.90	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	Aroclor 5460	J	2.6	3.5	PQL	ug/Kg	J (all detects)
SED-030-SIV-SD-0.0-0.5	Aroclor 5460	J	6.7	7.9	PQL	ug/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	8.4 5.3 9.3	9.4 9.4 18	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	AROCLOR 1248 AROCLOR 1254 Aroclor 5460	J J J	4.5 4.8 8.9	9.3 9.3 18	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-078-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	1.7 1.1	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-086-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.7 1.7	1.8 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	6.6 6.6	9.1 18	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-030-SIV-SD-0.0-0.5	2,4-D	J	3.0	4.3	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.78	1.4	PQL	ug/Kg	
SED-031-SIV-SD-0.0-0.5	DICAMBA	J	0.69	1.3	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	2,4-D	J	1.4	3.8	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SS-0.0-0.5	2,4-D	J	1.9	3.9	PQL	ug/Kg	J (all detects)
	MCPA	J	230	270	PQL	ug/Kg	
SL-076-SA5B-SS-0.0-0.5	MCPP	J	130	270	PQL	ug/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	MCPA	J	250	270	PQL	ug/Kg	J (all detects)
SL-089-SA5B-SS-0.0-0.5	2,4,5-T	J	0.088	0.18	PQL	ug/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	DICAMBA	J	0.45	1.3	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	BENZO(A)ANTHRACENE	J	30	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	33	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	60	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	33	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	24	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	350	PQL	ug/Kg	
	CHRYSENE	J	46	180	PQL	ug/Kg	
	FLUORANTHENE	J	64	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	27	180	PQL	ug/Kg	
	PHENANTHRENE	J	23	180	PQL	ug/Kg	
	PYRENE	J	70	180	PQL	ug/Kg	
SED-029-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	110	370	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	31	180	PQL	ug/Kg	
SED-030-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	400	PQL	ug/Kg	J (all detects)
SED-031-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	370	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	350	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	20	180	PQL	ug/Kg	
	PYRENE	J	25	180	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	41	360	PQL	ug/Kg	J (all detects)
SL-076-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	350	PQL	ug/Kg	J (all detects)
	PYRENE	J	18	180	PQL	ug/Kg	
SL-084-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	25	360	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	22	180	PQL	ug/Kg	
	PYRENE	J	23	180	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	330	360	PQL	ug/Kg	J (all detects)
SL-236-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	350	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	22	180	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	29	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	370	PQL	ug/Kg	
	PYRENE	J	21	180	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5B-QC-121310	1-METHYLNAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.87	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.75	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SED-029-SIV-SD-0.0-0.5	ANTHRACENE	J	4.4	18	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	9.6	18	PQL	ug/Kg	
	BENZO(A)PYRENE	J	9.6	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	97	200	PQL	ug/Kg	
SED-030-SIV-SD-0.0-0.5	CHRYSENE	J	1.6	2.0	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.3	22	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.83	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	0.89	2.0	PQL	ug/Kg	
	PYRENE	J	1.2	2.0	PQL	ug/Kg	
SED-031-SIV-SD-0.0-0.5	ANTHRACENE	J	0.43	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.99	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.1	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.9	PQL	ug/Kg	
SED-040-SIV-SD-0.0-0.5	ANTHRACENE	J	0.38	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.84	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.79	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.73	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	
SL-071-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-072-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.96	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.96	1.8	PQL	ug/Kg	
SL-073-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	13	18	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	16	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	12	18	PQL	ug/Kg	
	PYRENE	J	17	18	PQL	ug/Kg	
SL-074-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.5	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.58	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.0	20	PQL	ug/Kg	
	FLUORENE	J	0.80	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.7	1.8	PQL	ug/Kg	
SL-078-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	9.7	18	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	11	18	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	16	18	PQL	ug/Kg	
	CHRYSENE	J	17	18	PQL	ug/Kg	
	FLUORANTHENE	J	16	18	PQL	ug/Kg	
	PYRENE	J	13	18	PQL	ug/Kg	
SL-083-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.3	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE036 **Laboratory: LL**

EDD Filename: DE036_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.6	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.78	1.8	PQL	ug/Kg	
SL-086-SA5B-SS-0.0-0.5	CHRYSENE	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.89	1.8	PQL	ug/Kg	
SL-089-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	10	19	PQL	ug/Kg	
SL-092-SA5B-SS-0.0-0.5	NAPHTHALENE	J	0.78	1.9	PQL	ug/Kg	J (all detects)
SL-103-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	0.88	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.96	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.91	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.9	PQL	ug/Kg	
SL-139-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.96	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.6	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-236-SA5B-SS-0.0-0.5	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	6.4	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-301-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.40	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.4	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	

LDC #: 25337H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/5/11
SDG #: DE036 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: A

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

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	ICB/CCB hits - No Qual
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn 4x)
VII.	Duplicate Sample Analysis	N	D (Sb, Cd, Ag, Zr 2SxRL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba (12% J/UJ/A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-078-SA5B-SS-0.0-0.5	11	DUP04-SA5B-QC-121310 D	21	SL-071-SA5B-SS-0.0-0.5MS	31	
2	SL-084-SA5B-SS-0.0-0.5	12	SED-029-SIV-SD-0.0-0.5	22	SL-071-SA5B-SS-0.0-0.5MSD	32	
3	SL-076-SA5B-SS-0.0-0.5	13	SED-031-SIV-SD-0.0-0.5	23	SL-071-SA5B-SS-0.0-0.5DUP	33	
4	SL-074-SA5B-SS-0.0-0.5	14	SED-030-SIV-SD-0.0-0.5	24		34	
5	SL-139-SA5B-SS-0.0-0.5	15	SED-040-SIV-SD-0.0-0.5	25		35	
6	SL-083-SA5B-SS-0.0-0.5	16	SL-086-SA5B-SS-0.0-0.5	26		36	
7	SL-074-SA5B-SS-0.0-0.5	17	SL-092-SA5B-SS-0.0-0.5	27		37	
8	SL-301-SA5B-SS-0.0-0.5	18	SL-103-SA5B-SS-0.0-0.5	28		38	
9	SL-073-SA5B-SS-0.0-0.5	19	SL-089-SA5B-SS-0.0-0.5	29		39	
10	SL-072-SA5B-SS-0.0-0.5	20	SL-236-SA5B-SS-0.0-0.5	30		40	

Notes: DUP04 & SL-071

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3050B	6010B	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3050B	6020	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3060A	7199	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8081A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8082	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8151A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8270C	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	3550B	8270C SIM	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	Gen Prep	9045M	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	300.0	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	314.0	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163878	N	METHOD	7471A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5MSD	P163878M240238A	MSD	3550B	8151A	III
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5MS	P163878R240210A	MS	3550B	8151A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163871	N	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163872	MS	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	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
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163873	MSD	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	3060A	7199	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0DUP	6163874	DUP	METHOD	9012B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	P163871M321933A	MSD	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	P163871R321904A	MS	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3050B	6010B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3050B	6020	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	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
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3546	1625C	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8082	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8270C	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	3550B	8270C SIM	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8015M	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8260B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	5035	8260B SIM	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	8330	8330A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	Gen Prep	9045M	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	300.0	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	314.0	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	7471A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	8015B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	8315A	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163869	N	METHOD	9012B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3050B	6010B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3050B	6020	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3060A	7199	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8081A	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8082	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8151A	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8270C	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	3550B	8270C SIM	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	Gen Prep	9045M	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	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
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	314.0	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	6850	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163879	N	METHOD	7471A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3050B	6010B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3050B	6020	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3060A	7199	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3546	1625C	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8015B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8082	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8270C	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	3550B	8270C SIM	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8015M	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8260B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	5035	8260B SIM	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	8330	8330A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	Gen Prep	9045M	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	300.0	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	314.0	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	7471A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	8015B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	8315A	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163870	FD	METHOD	9012B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3050B	6010B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3050B	6020	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3060A	7199	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8015B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8082	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8270C	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	3550B	8270C SIM	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8015M	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8260B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	5035	8260B SIM	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	8330	8330A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	Gen Prep	9045M	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	300.0	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	314.0	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	7471A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	8015B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	8315A	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163876	N	METHOD	9012B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3050B	6010B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3050B	6020	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3060A	7199	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3546	1625C	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8015B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8082	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8270C	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	3550B	8270C SIM	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8015M	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	5035	8260B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	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
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	8330	8330A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	Gen Prep	9045M	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	300.0	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	314.0	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	7471A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	8015B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	8315A	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163877	N	METHOD	9012B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3005A	6010B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3020A	6020	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8081A	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8082	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8270C	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	3510C	8270C SIM	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	5030B	8260B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	5030B	8260B SIM	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	300.0	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	314.0	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	7199	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	Gen Prep	9040B	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	METHOD	7470A	III
13-Dec-2010	EB15-SA5B-121310	6163875	EB	METHOD	8151A	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3050B	6010B	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3050B	6020	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3060A	7199	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	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
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8082	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8151A	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8270C	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	3550B	8270C SIM	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	Gen Prep	9045M	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	300.0	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	314.0	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163881	N	METHOD	7471A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3050B	6010B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3050B	6020	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3060A	7199	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3546	1625C	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8081A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8082	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8151A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8270C	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	3550B	8270C SIM	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8015M	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8260B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	5035	8260B SIM	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	8330	8330A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	Gen Prep	9045M	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	300.0	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	314.0	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	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
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	8315A	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163880	N	METHOD	9012B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5MSD	P163880M322326A	MSD	METHOD	8015B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5MS	P163880R322312A	MS	METHOD	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3050B	6010B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3050B	6020	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3060A	7199	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3546	1625C	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8082	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8270C	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	3550B	8270C SIM	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8015M	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8260B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	5035	8260B SIM	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	8330	8330A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	Gen Prep	9045M	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	300.0	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	314.0	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	6850	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	7471A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	8015B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	8315A	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163884	N	METHOD	9012B	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	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
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3050B	6020	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3060A	7199	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8081A	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8082	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8151A	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8270C	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	3550B	8270C SIM	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	Gen Prep	9045M	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	300.0	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	314.0	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163882	N	METHOD	7471A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3050B	6010B	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3050B	6020	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3060A	7199	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8081A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8082	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8151A	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8270C	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	3550B	8270C SIM	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	Gen Prep	9045M	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	300.0	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	314.0	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	6850	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163887	N	METHOD	7471A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3050B	6010B	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	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
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3060A	7199	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8081A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8082	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8151A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8270C	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	3550B	8270C SIM	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	Gen Prep	9045M	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	300.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163883	N	METHOD	7471A	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5DUP	P163883D270644B	DUP	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5DUP	P163883D271735B	DUP	METHOD	300.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5MS	P163883R270708B	MS	METHOD	314.0	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5MS	P163883R271749B	MS	METHOD	300.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3050B	6010B	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3050B	6020	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3060A	7199	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8081A	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8082	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8151A	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8270C	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	3550B	8270C SIM	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	Gen Prep	9045M	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	300.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	N	METHOD	314.0	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163888	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
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3050B	6010B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3050B	6020	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3060A	7199	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3546	1625C	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8015B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8082	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8270C	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	3550B	8270C SIM	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8015M	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8260B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	5035	8260B SIM	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	8330	8330A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	Gen Prep	9045M	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	300.0	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	314.0	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	7471A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	8015B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	8315A	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163885	N	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0DUP	P163885D272017A	DUP	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0MS	P163885R272021A	MS	METHOD	9012B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3050B	6010B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3050B	6020	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3060A	7199	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3546	1625C	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	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
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8082	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8270C	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	3550B	8270C SIM	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8015M	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8260B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	5035	8260B SIM	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	8330	8330A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	Gen Prep	9045M	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	300.0	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	314.0	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	7471A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	8015B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	N	METHOD	8315A	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163886	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: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: EM **Method:** 9040B **Matrix:** AQ

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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
PH	5.2		0.010	MDL	0.010	PQL	pH unit	J	H

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	16.8		0.92	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	13.0		0.90	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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
Nitrate-NO3	1.9		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	8.0		0.87	MDL	1.6	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z, Q

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.98	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z, Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.54	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
PHOSPHORUS	397		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3800		20.2	MDL	56.2	PQL	mg/Kg	J	Q
TIN	2.94	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.82	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.97	J	0.998	MDL	5.61	PQL	mg/Kg	J	Z
PHOSPHORUS	386		0.628	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2790		20.2	MDL	56.1	PQL	mg/Kg	J	Q
SODIUM	78.8	J	41.8	MDL	112	PQL	mg/Kg	J	Z
TIN	2.66	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.22	J	0.942	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.23	J	0.908	MDL	5.10	PQL	mg/Kg	J	Z
PHOSPHORUS	267		0.572	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	1810		18.4	MDL	51.0	PQL	mg/Kg	J	Q
SODIUM	64.8	J	38.1	MDL	102	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.86	J	1.02	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.87	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
PHOSPHORUS	306		0.594	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2360		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	105	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.33	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	413		0.668	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	4570		21.5	MDL	59.6	PQL	mg/Kg	J	Q
TIN	2.80	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	4.76	J	1.00	MDL	5.96	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *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	0.959	MDL	5.39	PQL	mg/Kg	J	Z
PHOSPHORUS	349		0.603	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2660		19.4	MDL	53.9	PQL	mg/Kg	J	Q
TIN	2.50	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.905	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	419		0.608	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3630		19.5	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.29	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.82	J	0.912	MDL	5.43	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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	4.83	J	0.941	MDL	5.29	PQL	mg/Kg	J	Z
PHOSPHORUS	318		0.592	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2590		19.0	MDL	52.9	PQL	mg/Kg	J	Q
TIN	2.43	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.68	J	0.888	MDL	5.29	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.96	J	0.949	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	430		0.597	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2790		19.2	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.45	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.20	J	0.896	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	310		0.605	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	2560		19.4	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.43	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.75	J	0.907	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.61	J	0.938	MDL	5.27	PQL	mg/Kg	J	Z
PHOSPHORUS	509		0.590	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3410		19.0	MDL	52.7	PQL	mg/Kg	J	Q
TIN	2.61	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.886	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.83	J	0.939	MDL	5.28	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	517		0.591	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2400		19.0	MDL	52.8	PQL	mg/Kg	J	Q
SODIUM	90.4	J	39.4	MDL	106	PQL	mg/Kg	J	Z
TIN	2.62	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.35	J	0.886	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	422		0.588	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3390		18.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.65	J	1.05	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.31	J	0.954	MDL	5.36	PQL	mg/Kg	J	Z
PHOSPHORUS	451		0.600	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	3220		19.3	MDL	53.6	PQL	mg/Kg	J	Q
TIN	2.61	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.44	J	0.900	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	518		0.586	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	4880		18.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.86	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.18	J	0.879	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	0.928	MDL	5.21	PQL	mg/Kg	J	Z
PHOSPHORUS	441		0.584	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3440		18.8	MDL	52.1	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
Zirconium	1.88	J	0.875	MDL	5.21	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 6020 **Matrix:** AQ

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 12:15:00 *Analysis Type:* REA6 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000099	J	0.000052	MDL	0.0010	PQL	mg/L	J	Z

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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
CADMIUM	0.102	J	0.0409	MDL	0.114	PQL	mg/Kg	J	Z, Q

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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
SELENIUM	0.340	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.419		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.123	MDL	0.454	PQL	mg/Kg	J	A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 ***Collected:*** 12/13/2010 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	0.214	J	0.0681	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	7.66		0.0681	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	9.46		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, A
SILVER	0.0310	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
ZINC	91.3		0.636	MDL	3.41	PQL	mg/Kg	J	A

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.249		0.0404	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	25.0		0.0292	MDL	0.561	PQL	mg/Kg	J	Q, A

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.707		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.121	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SED-032-SIV-SD-0.0-0.5 ***Collected:*** 12/13/2010 2:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0673	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	8.28		0.0673	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	1.39		0.0135	MDL	0.112	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	109		0.628	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.150		0.0375	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.209	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.691		0.0520	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.112	MDL	0.416	PQL	mg/Kg	J	A

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.286		0.0624	MDL	0.208	PQL	mg/Kg	J	Q
ARSENIC	9.50		0.0624	MDL	0.416	PQL	mg/Kg	J	Q
LEAD	15.0		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, A
SILVER	0.329		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	118		0.583	MDL	3.12	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0626	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z, Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.760		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.2		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 4:08:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0994	J	0.0637	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	7.96		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	5.49		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A
SILVER	0.0190	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	79.0		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.212		0.0434	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0482	MDL	0.482	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0602	MDL	0.120	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	203		0.130	MDL	0.482	PQL	mg/Kg	J	A

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.559		0.0723	MDL	0.241	PQL	mg/Kg	J	Q
ARSENIC	12.2		0.0723	MDL	0.482	PQL	mg/Kg	J	Q
LEAD	13.0		0.0125	MDL	0.241	PQL	mg/Kg	J	Q, A
SILVER	0.0765	J	0.0145	MDL	0.120	PQL	mg/Kg	J	Z, Q
ZINC	115		0.675	MDL	3.61	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0875	J	0.0373	MDL	0.104	PQL	mg/Kg	J	Z, Q

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.780		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.112	MDL	0.414	PQL	mg/Kg	J	A

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0622	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	7.50		0.0622	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	6.10		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-003-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 2:37:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0366	J	0.0124	MDL	0.104	PQL	mg/Kg	J	Z, Q
ZINC	89.1		0.580	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.108	J	0.0402	MDL	0.112	PQL	mg/Kg	J	Z, Q

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.299	J	0.0447	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.517		0.0559	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.121	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.272		0.0670	MDL	0.223	PQL	mg/Kg	J	Q
ARSENIC	6.87		0.0670	MDL	0.447	PQL	mg/Kg	J	Q
LEAD	9.45		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, A
SILVER	0.0341	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
ZINC	81.2		0.626	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 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
CADMIUM	0.248		0.0388	MDL	0.108	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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
SELENIUM	0.241	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 9:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.790		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 9:55:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	106		0.116	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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	0.296		0.0647	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	11.4		0.0647	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	13.0		0.0112	MDL	0.216	PQL	mg/Kg	J	Q, A
SILVER	0.0704	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
ZINC	114		0.604	MDL	3.24	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0887	J	0.0388	MDL	0.108	PQL	mg/Kg	J	Z, Q

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.684		0.0539	MDL	0.108	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.116	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0646	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0646	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	6.51		0.0112	MDL	0.215	PQL	mg/Kg	J	Q, A
SILVER	0.0301	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
ZINC	94.7		0.603	MDL	3.23	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.128		0.0385	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0535	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.115	MDL	0.428	PQL	mg/Kg	J	A

Sample ID: SL-007-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0642	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	9.29		0.0642	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	7.95		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0588	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z, Q
ZINC	90.9		0.599	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.173		0.0376	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.193	J	0.0626	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	8.68		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	10.0		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, A
SILVER	0.173		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	127		0.585	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-077-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 10:04:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.130		0.0380	MDL	0.106	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0944	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.538		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.9		0.114	MDL	0.422	PQL	mg/Kg	J	A

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.215		0.0633	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	8.71		0.0633	MDL	0.422	PQL	mg/Kg	J	Q
LEAD	6.50		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, A
SILVER	0.0576	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	84.3		0.591	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.490		0.0371	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.237	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	10.7		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.470		0.0618	MDL	0.206	PQL	mg/Kg	J	Q
ARSENIC	8.71		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	13.3		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, A
SILVER	0.0715	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
ZINC	147		0.577	MDL	3.09	PQL	mg/Kg	J	A

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.282		0.0382	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **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	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.19		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	143		0.115	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.405		0.0637	MDL	0.212	PQL	mg/Kg	J	Q
ARSENIC	8.58		0.0637	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	10.9		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, A

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.841		0.0127	MDL	0.106	PQL	mg/Kg	J	Q
ZINC	133		0.594	MDL	3.18	PQL	mg/Kg	J	A

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.271		0.0380	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.334	J	0.0423	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.31		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.114	MDL	0.423	PQL	mg/Kg	J	A

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.437		0.0634	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	10.8		0.0634	MDL	0.423	PQL	mg/Kg	J	Q
LEAD	15.2		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, A
SILVER	0.0585	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
ZINC	182		0.592	MDL	3.17	PQL	mg/Kg	J	A

Sample ID: SL-095-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 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
CADMIUM	0.278		0.0364	MDL	0.101	PQL	mg/Kg	J	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
SELENIUM	0.159	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	162		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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		0.0607	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	7.12		0.0607	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	10.9		0.0105	MDL	0.202	PQL	mg/Kg	J	Q, A
SILVER	0.0526	J	0.0121	MDL	0.101	PQL	mg/Kg	J	Z, Q
ZINC	126		0.567	MDL	3.04	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.79	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-001-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 4:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 2:37:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 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	0.26	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:17:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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	0.52	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0148	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0033	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0043	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0036	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0304	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0218	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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
N-NITROSODIMETHYLAMINE	129		19.1	MDL	38.2	PQL	ng/Kg	J	FD

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	18.8	U	18.8	MDL	37.6	PQL	ng/Kg	UJ	Q, FD

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	108	J	89.3	MDL	179	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.35		0.069	MDL	0.19	PQL	ug/Kg	J	S
DELTA-BHC	0.19		0.041	MDL	0.19	PQL	ug/Kg	J	S

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.16	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
DELTA-BHC	0.12	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.44	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
AROCLOR 1260	2.1	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *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	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.61	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.97	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, FD

Sample ID: SL-007-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.71	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.4	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1254	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	0.88	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *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 1260	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	9.7	J	5.4	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	5.1	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	38		0.72	MDL	3.7	PQL	ug/Kg	J	S
Aroclor 5460	2.8	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z, S

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	5.1		0.66	MDL	1.8	PQL	ug/Kg	U	B
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-075-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.94	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z, Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	280		80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-077-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.6	J	0.66	MDL	1.8	PQL	ug/Kg	U	B
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPA	200	J	81	MDL	270	PQL	ug/Kg	J	Z
MCPP	130	J	80	MDL	270	PQL	ug/Kg	U	B

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *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	2.9		0.68	MDL	1.9	PQL	ug/Kg	U	B
DICAMBA	0.54	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 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
2,4-DB	3.9		0.65	MDL	1.8	PQL	ug/Kg	U	B
DICAMBA	0.55	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z
ANTHRACENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
CARBAZOLE	24	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	120	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	110	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-CHLOROPHENYL-PHENYLETHER	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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	0.24	J	0.050	MDL	1.0	PQL	ug/L	U	B
Butylbenzylphthalate	0.093	J	0.050	MDL	1.0	PQL	ug/L	U	B
Diethylphthalate	0.11	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-butylphthalate	0.31	J	0.050	MDL	1.0	PQL	ug/L	U	B
Di-n-octylphthalate	0.082	J	0.050	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.033	J	0.010	MDL	0.050	PQL	ug/L	J	Z
PHENANTHRENE	0.018	J	0.010	MDL	0.050	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 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	10	J	6.9	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.49	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30		6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.96	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.99	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.4	MDL	19	PQL	ug/Kg	U	B
NAPHTHALENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-003-SA5C-SB-4.0-5.0** ***Collected:*** **12/13/2010 2:37:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.90	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.76	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-006-SA5C-SB-4.0-5.0** ***Collected:*** **12/13/2010 9:45:00** ***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	9.0	J	6.8	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.46	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD

Sample ID: **SL-007-SA5C-SB-9.0-10.0** ***Collected:*** **12/13/2010 12:14:00** ***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	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-075-SA5B-SS-0.0-0.5** ***Collected:*** **12/13/2010 9:03:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.49	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.4	MDL	19	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	0.78	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: **SL-077-SA5B-SS-0.0-0.5** ***Collected:*** **12/13/2010 10:04:00** ***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	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.5	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.99	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *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	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.91	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *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	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	25		6.5	MDL	20	PQL	ug/Kg	U	B
NAPHTHALENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.3	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-006-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 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
FORMALDEHYDE	990	J	650	MDL	1600	PQL	ug/Kg	J	Z

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

Sample ID: SL-003-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 2:37:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	110	J	110	MDL	540	PQL	ug/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 12:14:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	140	J	110	MDL	550	PQL	ug/Kg	J	Z

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

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 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
ACETONE	7	J	6	MDL	20	PQL	ug/L	J	Z

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

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1.1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.97	J	0.30	MDL	5.1	PQL	ug/Kg	U	B

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *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	3.0	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: SL-001-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 4:16:00 ***Analysis Type:*** RES ***Dilution:*** 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.6	J	1.2	MDL	8.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.5	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-003-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 2:37:00 ***Analysis Type:*** RES ***Dilution:*** 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.13	J	0.12	MDL	4.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.4	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.63	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-006-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.7	J	7.3	MDL	8.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.1	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-007-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.14	J	0.12	MDL	4.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.5	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-007-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.26	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-085-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 1:35:00 ***Analysis Type:*** RES ***Dilution:*** 1.29

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.33	MDL	5.5	PQL	ug/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE037

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE037 **Laboratory: LL**
EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 9040B **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB15-SA5B-121310 (RES)	Sampling To Analysis	103.00	48.00	HOURS	J (all detects) R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:46:00 PM	MAGNESIUM	0.0421 mg/L	EB15-SA5B-121310
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB15-SA5B-121310

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108CB221941	12/20/2010 7:41:00 PM	PHOSPHORUS TIN	1.63 mg/Kg 1.28 mg/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-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
DUP13-SA5C-QC-121310(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SED-032-SIV-SD-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SED-033-SIV-SD-0.0-0.5(RES)	TIN	1.86 mg/Kg	1.86U mg/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P50505AB321750A	12/17/2010 5:50:00 PM	METHANOL	110 ug/Kg	DUP13-SA5C-QC-121310 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P51516AB242352A	12/20/2010 11:52:00 PM	2,4-DB MCPP	1.2 ug/Kg 160 ug/Kg	SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-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
SED-033-SIV-SD-0.0-0.5(RES)	2,4-DB	5.1 ug/Kg	5.1U ug/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	MCPP	280 ug/Kg	280U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	2,4-DB	1.6 ug/Kg	1.8U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	MCPP	130 ug/Kg	270U ug/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	2,4-DB	2.9 ug/Kg	2.9U ug/Kg
SL-095-SA5B-SS-0.0-0.5(RES)	2,4-DB	3.9 ug/Kg	3.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B212115A	12/14/2010 9:15:00 PM	CHLOROFORM METHYLENE CHLORIDE TOLUENE	0.22 ug/Kg 1.3 ug/Kg 0.09 ug/Kg	DUP13-SA5C-QC-121310 SL-001-SA5C-SB-4.0-5.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-085-SA5B-SS-0.0-0.5
VBLKB18B211848A	12/16/2010 6:48:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.37 ug/Kg 1.0 ug/Kg	SL-001-SA5C-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
DUP13-SA5C-QC-121310(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	5.1U ug/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.0 ug/Kg	4.1U ug/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	CHLOROFORM	0.13 ug/Kg	4.0U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory:** LL

EDD Filename: DE037_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-003-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.4 ug/Kg	4.0U ug/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	4.3U ug/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.4U ug/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	CHLOROFORM	0.14 ug/Kg	4.0U ug/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	4.0U ug/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.4U ug/Kg
SL-085-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	5.5U ug/Kg

Method: 8270C
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB35B262253	1/3/2011 10:53:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Diethylphthalate	18 ug/Kg 28 ug/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI34B262040	12/22/2010 8:40:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Diethylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.11 ug/L 0.076 ug/L 0.063 ug/L 0.13 ug/L 0.084 ug/L	EB15-SA5B-121310

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5B-121310(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.24 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Butylbenzylphthalate	0.093 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Diethylphthalate	0.11 ug/L	1.0U ug/L

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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
EB15-SA5B-121310(RES)	Di-n-butylphthalate	0.31 ug/L	1.0U ug/L
EB15-SA5B-121310(RES)	Di-n-octylphthalate	0.082 ug/L	1.0U ug/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC35B261309	12/29/2010 1:09:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	6.3 ug/Kg	DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-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
DUP13-SA5C-QC-121310(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	21U ug/Kg
SED-032-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	30 ug/Kg	30U ug/Kg
SED-033-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	19U ug/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	20U ug/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	19U ug/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	19U ug/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	25 ug/Kg	25U ug/Kg
SL-095-SA5B-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	16 ug/Kg	19U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	Nitrate-NO3	152	-	80.00-120.00	-	Nitrate-NO3	J (all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-075-SA5B-SS-0.0-0.5MS SL-075-SA5B-SS-0.0-0.5MSD (SL-075-SA5B-SS-0.0-0.5)	2,4-D	-	-	28.00-161.00	56 (35.00)	2,4-D	J(all detects)
	2,4-DB	188	-	20.00-170.00	-	2,4-DB	
	DALAPON	-	100	12.00-86.00	72 (50.00)	DALAPON	
	MCPA	232	199	31.00-184.00	-	MCPA	
SL-075-SA5B-SS-0.0-0.5MS SL-075-SA5B-SS-0.0-0.5MSD (SL-075-SA5B-SS-0.0-0.5)	DICAMBA	5	5	33.00-120.00	-	DICAMBA	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-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ARSENIC	140	155	75.00-125.00	-	ARSENIC	J(all detects) Zn No Qual, >4x
	CADMIUM	129	138	75.00-125.00	-	CADMIUM	
	SILVER	-	130	75.00-125.00	-	SILVER	
	ZINC	-	152	75.00-125.00	-	ZINC	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MS **SL-006-SA5C-SB-4.0-5.0MSD** (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ANTIMONY LEAD	51 -	58 67	75.00-125.00 75.00-125.00	- -	ANTIMONY LEAD	J(all detects) UJ(all non-detects)
SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	MOLYBDENUM	-	133	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0. SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	BARIUM	63	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	ALUMINUM IRON MANGANESE POTASSIUM TITANIUM	1450 483 167 134 528	1167 835 180 - 467	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Fe, Mn, Ti No Qual, >4x
SL-006-SA5C-SB-4.0-5.0MS SL-006-SA5C-SB-4.0-5.0MSD (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	CALCIUM MAGNESIUM	-144 -242	-221 -219	75.00-125.00 75.00-125.00	- -	CALCIUM MAGNESIUM	No Qual, >4x
SL-006-SA5C-SB-4.0-5.0MS (DUP13-SA5C-QC-121310 SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-001-SA5C-SB-4.0-5.0 SL-001-SA5C-SB-9.0-10.0 SL-003-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-4.0-5.0 SL-006-SA5C-SB-9.0-10.0 SL-007-SA5C-SB-4.0-5.0 SL-007-SA5C-SB-9.0-10.0 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	PHOSPHORUS	54	-	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-006-SA5C-SB-4.0-5.0MSD (SL-006-SA5C-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	35 (30.00)	2,4-DINITROPHENOL	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_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-006-SA5C-SB-4.0-5.0MSD	4-CHLOROPHENYL-PHENYLET	-	79	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	J(all detects)
(SL-006-SA5C-SB-4.0-5.0)	BENZIDINE	-	23	35.00-141.00	46 (30.00)	BENZIDINE	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-006-SA5C-SB-4.0-5.0MSD	N-NITROSODIMETHYLAMINE	-	66	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects)
(SL-006-SA5C-SB-4.0-5.0)							UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-006-SA5C-SB-4.0-5.0DUP	ANTIMONY	49	20.00	
(DUP13-SA5C-QC-121310	MOLYBDENUM	22	20.00	
SED -032-SIV-SD-0.0-0.5	SILVER	26	20.00	
SED -033-SIV-SD-0.0-0.5				
SL-001-SA5C-SB-4.0-5.0				
SL-001-SA5C-SB-9.0-10.0				
SL-003-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-9.0-10.0				No Qual
SL-007-SA5C-SB-4.0-5.0				OK by difference
SL-007-SA5C-SB-9.0-10.0				
SL-075-SA5B-SS-0.0-0.5				
SL-077-SA5B-SS-0.0-0.5				
SL-085-SA5B-SS-0.0-0.5				
SL-087-SA5B-SS-0.0-0.5				
SL-091-SA5B-SS-0.0-0.5				
SL-095-SA5B-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-006-SA5C-SB-4.0-5.0DUP	HEXAVALENT CHROMIUM	32	20.00	
(DUP13-SA5C-QC-121310				
SED -032-SIV-SD-0.0-0.5				
SED -033-SIV-SD-0.0-0.5				
SL-001-SA5C-SB-4.0-5.0				
SL-001-SA5C-SB-9.0-10.0				
SL-003-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-4.0-5.0				
SL-006-SA5C-SB-9.0-10.0				No Qual
SL-007-SA5C-SB-4.0-5.0				OK by difference
SL-007-SA5C-SB-9.0-10.0				
SL-075-SA5B-SS-0.0-0.5				
SL-077-SA5B-SS-0.0-0.5				
SL-085-SA5B-SS-0.0-0.5				
SL-087-SA5B-SS-0.0-0.5				
SL-091-SA5B-SS-0.0-0.5				
SL-095-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1. eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03506AY241102A (EB15-SA5B-121310)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 7199
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34813AY271243A (EB15-SA5B-121310)	HEXAVALENT CHROMIUM	-	112	90.00-110.00	-	HEXAVALENT CHROMIUM	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSY262212 (EB15-SA5B-121310)	1,2-Diphenylhydrazine/Azobenzen	-	118	78.00-116.00	-	1,2-Diphenylhydrazine/Azobenz	J(all detects)
	2,4,5-TRICHLOROPHENOL	-	108	79.00-107.00	-	2,4,5-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	-	117	80.00-109.00	-	2,4-DICHLOROPHENOL	
	2,4-DIMETHYLPHENOL	-	117	72.00-110.00	-	2,4-DIMETHYLPHENOL	
	2-CHLOROPHENOL	-	109	77.00-108.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	-	102	64.00-101.00	-	2-METHYLPHENOL	
	DIBENZOFURAN	-	111	83.00-108.00	-	DIBENZOFURAN	
P0WBLCSY262212 (EB15-SA5B-121310)	BENZOIC ACID	-	-	10.00-69.00	44 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03516AQ240020A (SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE037 Laboratory: LL

EDD Filename: DE037_v1. eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03556AQ240109A (SED-032-SIV-SD-0.0-0.5 SED-033-SIV-SD-0.0-0.5 SL-075-SA5B-SS-0.0-0.5 SL-077-SA5B-SS-0.0-0.5 SL-085-SA5B-SS-0.0-0.5 SL-087-SA5B-SS-0.0-0.5 SL-091-SA5B-SS-0.0-0.5 SL-095-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8081A**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SED-032-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	J (all detects)

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-006-SA5C-SB-4.0-5.0	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)
SL-091-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	190	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037 | Laboratory: LL

EDD Filename: DE037_v1 | eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
MOISTURE	11.4	12.8	12		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
N-NITROSODIMETHYLAMINE	37.6 U	129	200	50.00	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
FLUORIDE	3.3	3.6	9	50.00	No Qualifiers Applied
Nitrate-NO3	13.0	16.8	26	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
ALUMINUM	23700	26300	10	50.00	No Qualifiers Applied
BORON	7.11	5.54	25	50.00	
CALCIUM	7330	7160	2	50.00	
IRON	29600	33600	13	50.00	
LITHIUM	29.0	29.5	2	50.00	
MAGNESIUM	7030	7170	2	50.00	
MANGANESE	387	332	15	50.00	
PHOSPHORUS	419	397	5	50.00	
POTASSIUM	3630	3800	5	50.00	
SODIUM	198	189	5	50.00	
STRONTIUM	32.2	33.9	5	50.00	
TIN	2.29	2.94	25	50.00	
TITANIUM	1230	1560	24	50.00	
Zirconium	3.82	4.82	23	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
ANTIMONY	0.272	0.214	24	50.00	No Qualifiers Applied
ARSENIC	6.87	7.66	11	50.00	
BARIUM	128	123	4	50.00	
BERYLLIUM	0.957	0.962	1	50.00	
CADMIUM	0.108	0.102	6	50.00	
CHROMIUM	38.2	43.1	12	50.00	
COBALT	9.01	9.56	6	50.00	
COPPER	12.0	12.3	2	50.00	
LEAD	9.45	9.46	0	50.00	
MOLYBDENUM	0.517	0.419	21	50.00	
NICKEL	17.0	19.0	11	50.00	
SELENIUM	0.299	0.340	13	50.00	
SILVER	0.0341	0.0310	10	50.00	
THALLIUM	0.361	0.392	8	50.00	
VANADIUM	76.5	89.1	15	50.00	
ZINC	81.2	91.3	12	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
HEXAVALENT CHROMIUM	0.26	0.28	7	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
AROCLOR 1254	0.97	0.44	75	50.00	J(all detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
METHYLENE CHLORIDE	0.63	0.97	42	50.00	No Qualifiers Applied

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	10	11	50.00	No Qualifiers Applied
CHRYSENE	0.46	1.9 U	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
PH	8.16	8.05	1	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
Oxidation Reduction Potential	399	400	0		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	LEAD	J	0.000099	0.0010	PQL	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	ACETONE	J	7	20	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.24	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.093	1.0	PQL	ug/L	
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.31	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.082	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.033	0.050	PQL	ug/L	
	PHENANTHRENE	J	0.018	0.050	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	108	179	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	FLUORIDE	J	0.90	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	Nitrate-NO3	J	0.98	1.6	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	BORON	J	5.54	5.62	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.2	PQL	mg/Kg	
	Zirconium	J	4.82	5.62	PQL	mg/Kg	
SED-032-SIV-SD-0.0-0.5	BORON	J	4.97	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	78.8	112	PQL	mg/Kg	
	TIN	J	2.66	11.2	PQL	mg/Kg	
	Zirconium	J	1.22	5.61	PQL	mg/Kg	
SED-033-SIV-SD-0.0-0.5	BORON	J	3.23	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	64.8	102	PQL	mg/Kg	
	TIN	J	1.86	10.2	PQL	mg/Kg	
SL-001-SA5C-SB-4.0-5.0	BORON	J	2.87	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	106	PQL	mg/Kg	
	TIN	J	2.33	10.6	PQL	mg/Kg	
SL-001-SA5C-SB-9.0-10.0	TIN	J	2.80	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.76	5.96	PQL	mg/Kg	
SL-003-SA5C-SB-4.0-5.0	BORON	J	4.64	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.8	PQL	mg/Kg	
	Zirconium	J	1.44	5.39	PQL	mg/Kg	
SL-006-SA5C-SB-4.0-5.0	TIN	J	2.29	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.82	5.43	PQL	mg/Kg	
SL-006-SA5C-SB-9.0-10.0	BORON	J	4.83	5.29	PQL	mg/Kg	J (all detects)
	TIN	J	2.43	10.6	PQL	mg/Kg	
	Zirconium	J	1.68	5.29	PQL	mg/Kg	
SL-007-SA5C-SB-4.0-5.0	BORON	J	4.96	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.7	PQL	mg/Kg	
	Zirconium	J	1.20	5.33	PQL	mg/Kg	
SL-007-SA5C-SB-9.0-10.0	TIN	J	2.43	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.75	5.40	PQL	mg/Kg	
SL-075-SA5B-SS-0.0-0.5	BORON	J	3.61	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.5	PQL	mg/Kg	
	Zirconium	J	2.25	5.27	PQL	mg/Kg	
SL-077-SA5B-SS-0.0-0.5	BORON	J	2.83	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.4	106	PQL	mg/Kg	
	TIN	J	2.62	10.6	PQL	mg/Kg	
	Zirconium	J	1.35	5.28	PQL	mg/Kg	
SL-085-SA5B-SS-0.0-0.5	TIN	J	2.65	10.5	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	BORON	J	5.31	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.7	PQL	mg/Kg	
	Zirconium	J	3.44	5.36	PQL	mg/Kg	
SL-091-SA5B-SS-0.0-0.5	TIN	J	2.86	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.18	5.23	PQL	mg/Kg	
SL-095-SA5B-SS-0.0-0.5	BORON	J	4.36	5.21	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.88	5.21	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	ANTIMONY	J	0.214	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.102	0.114	PQL	mg/Kg	
	SELENIUM	J	0.340	0.454	PQL	mg/Kg	
	SILVER	J	0.0310	0.114	PQL	mg/Kg	
SED-032-SIV-SD-0.0-0.5	ANTIMONY	J	0.192	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.168	0.449	PQL	mg/Kg	
SED-033-SIV-SD-0.0-0.5	SELENIUM	J	0.209	0.416	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	ANTIMONY	J	0.0994	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0626	0.106	PQL	mg/Kg	
	SELENIUM	J	0.153	0.424	PQL	mg/Kg	
	SILVER	J	0.0190	0.106	PQL	mg/Kg	
SL-001-SA5C-SB-9.0-10.0	SELENIUM	J	0.190	0.482	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0765	0.120	PQL	mg/Kg	
SL-003-SA5C-SB-4.0-5.0	ANTIMONY	J	0.174	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0875	0.104	PQL	mg/Kg	
	SELENIUM	J	0.177	0.414	PQL	mg/Kg	
	SILVER	J	0.0366	0.104	PQL	mg/Kg	
SL-006-SA5C-SB-4.0-5.0	CADMIUM	J	0.108	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.299	0.447	PQL	mg/Kg	
	SILVER	J	0.0341	0.112	PQL	mg/Kg	
SL-006-SA5C-SB-9.0-10.0	SELENIUM	J	0.241	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0704	0.108	PQL	mg/Kg	
SL-007-SA5C-SB-4.0-5.0	ANTIMONY	J	0.156	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0887	0.108	PQL	mg/Kg	
	SELENIUM	J	0.141	0.431	PQL	mg/Kg	
	SILVER	J	0.0301	0.108	PQL	mg/Kg	
SL-007-SA5C-SB-9.0-10.0	ANTIMONY	J	0.132	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.428	PQL	mg/Kg	
	SILVER	J	0.0588	0.107	PQL	mg/Kg	
SL-075-SA5B-SS-0.0-0.5	ANTIMONY	J	0.193	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.418	PQL	mg/Kg	
SL-077-SA5B-SS-0.0-0.5	SELENIUM	J	0.0944	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0576	0.106	PQL	mg/Kg	
SL-085-SA5B-SS-0.0-0.5	SELENIUM	J	0.237	0.412	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0715	0.103	PQL	mg/Kg	
SL-087-SA5B-SS-0.0-0.5	SELENIUM	J	0.136	0.424	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	SELENIUM	J	0.334	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0585	0.106	PQL	mg/Kg	
SL-095-SA5B-SS-0.0-0.5	SELENIUM	J	0.159	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0526	0.101	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.79	1.1	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.37	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-006-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-075-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	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
SED-032-SIV-SD-0.0-0.5	MERCURY	J	0.0148	0.111	PQL	mg/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	MERCURY	J	0.0073	0.116	PQL	mg/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	MERCURY	J	0.0131	0.105	PQL	mg/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	MERCURY	J	0.0043	0.108	PQL	mg/Kg	J (all detects)
SL-077-SA5B-SS-0.0-0.5	MERCURY	J	0.0036	0.102	PQL	mg/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	MERCURY	J	0.0304	0.107	PQL	mg/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	MERCURY	J	0.0218	0.105	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA5C-SB-4.0-5.0	METHANOL	J	110	540	PQL	ug/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	METHANOL	J	140	550	PQL	ug/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.16	0.18	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.12	0.17	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	AROCLOR 1254	J	0.44	1.9	PQL	ug/Kg	J (all detects)
SED-033-SIV-SD-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	1.7 2.1	3.6 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.3 0.61	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	AROCLOR 1254	J	0.97	1.9	PQL	ug/Kg	J (all detects)
SL-007-SA5C-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	0.71 1.9	1.8 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-007-SA5C-SB-9.0-10.0	AROCLOR 1248 AROCLOR 1254 AROCLOR 1260	J J J	1.4 1.1 0.88	1.9 1.9 1.9	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-075-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.9	3.5	PQL	ug/Kg	J (all detects)
SL-077-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.4 1.3	1.8 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	Aroclor 5460	J	9.7	18	PQL	ug/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	Aroclor 5460	J	5.1	7.2	PQL	ug/Kg	J (all detects)
SL-091-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.8	7.2	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5B-SS-0.0-0.5	DICAMBA	J	0.94	1.3	PQL	ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	2,4-DB MCPA MCPP	J J J	1.6 200 130	1.8 270 270	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-087-SA5B-SS-0.0-0.5	DICAMBA	J	0.54	1.3	PQL	ug/Kg	J (all detects)
SL-095-SA5B-SS-0.0-0.5	DICAMBA	J	0.55	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	METHYLENE CHLORIDE	J	0.97	5.1	PQL	ug/Kg	J (all detects)
SL-001-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.0	4.1	PQL	ug/Kg	J (all detects)
SL-001-SA5C-SB-9.0-10.0	2-BUTANONE (MEK) METHYLENE CHLORIDE TOLUENE	J J J	5.6 1.5 0.11	8.2 4.1 4.1	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-003-SA5C-SB-4.0-5.0	CHLOROFORM METHYLENE CHLORIDE	J J	0.13 2.4	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-006-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.63	4.3	PQL	ug/Kg	J (all detects)
SL-006-SA5C-SB-9.0-10.0	ACETONE METHYLENE CHLORIDE	J J	8.7 1.1	8.8 4.4	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5C-SB-4.0-5.0	CHLOROFORM	J	0.14	4.0	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	2.5	4.0	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.4	4.4	PQL	ug/Kg	J (all detects)
SL-085-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	1.5	5.5	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-032-SIV-SD-0.0-0.5	ACENAPHTHENE	J	43	190	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	37	190	PQL	ug/Kg	
	CARBAZOLE	J	24	190	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	120	190	PQL	ug/Kg	
	PHENANTHRENE	J	110	190	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SED-032-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.49	1.9	PQL	ug/Kg	J (all detects)
SED-033-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	0.94	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.99	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	19	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
SL-003-SA5C-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.90	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.76	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	
SL-006-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.46	1.9	PQL	ug/Kg	
SL-007-SA5C-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.98	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-075-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.49	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.78	1.8	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
SL-077-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE037 **Laboratory: LL**

EDD Filename: DE037_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.99	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SL-087-SA5B-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	14	20	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.91	1.8	PQL	ug/Kg	
SL-091-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
SL-095-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	

Method: **8315A**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5C-SB-9.0-10.0	FORMALDEHYDE	J	990	1600	PQL	ug/Kg	J (all detects)

LDC #: 25337I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-5-11
SDG #: DE037 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020/~~X~~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	ICB/CCB hits - No @Val
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn >4x)
VII.	Duplicate Sample Analysis	N	Dup (Sb, Mo, Ag <5xRL)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba-16%, Pb-12%, Zn-11% :J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=4

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

Validated Samples:

1	SL-006-SA5C-SB-9.0-10.0	11	SL-095-SA5B-SS-0.0-0.5	21		31	
2	DUP13-SA5C-QC-121310	12	SL-091-SA5B-SS-0.0-0.5	22		32	
3	SL-006-SA5C-SB-4.0-5.0	13	SL-003-SA5B-SS-4.0-5.0	23		33	
4	EB-15-SA5B-121310 W	14	SL-001-SA5B-SS-4.0-5.0	24		34	
5	SL-007-SA5C-SB-4.0-5.0	15	SL-001-SA5B-SS-9.0-10.0	25		35	
6	SL-007-SA5C-SB-9.0-10.0	16	SED-032-SIV-SD-0.0-0.5	26		36	
7	SL-075-SA5B-SS-0.0-0.5	17	SED-033-SIV-SD-0.0-0.5	27		37	
8	SL-077-SA5B-SS-0.0-0.5	18	SL-006-SA5C-SB-4.0-5.0MS	28		38	
9	SL-085-SA5B-SS-0.0-0.5	19	SL-006-SA5C-SB-4.0-5.0MSD	29		39	
10	SL-087-SA5B-SS-0.0-0.5	20	SL-006-SA5C-SB-4.0-5.0DUP	30		40	

Notes: _____

LDC #: 25337I4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer:

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 12/13/10 Soil factor applied 100x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification										
	8	Action Level	No Qualifiers (>5x)									
Pb	0.099	0.0495										

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".

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	TB-121410	6164943	TB	5030B	8015M	IV
14-Dec-2010	TB-121410	6164943	TB	5030B	8260B SIM	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3050B	6010B	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3050B	6020	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3060A	7199	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8081A	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8082	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8151A	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8270C	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	3550B	8270C SIM	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	Gen Prep	9045M	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	METHOD	300.0	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	METHOD	314.0	IV
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164949	N	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3546	1625C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8082	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	5035	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	5035	8260B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	5035	8260B SIM	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	8330	8330A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	Gen Prep	9045M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	8315A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164941	N	METHOD	9012B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221008	DUP	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221205A	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221205C	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221205D	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221728B	DUP	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D221855	DUP	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D270013A	DUP	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D271326A	DUP	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0DUP	P164941D271511A	DUP	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221010	MSD	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221211A	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221211C	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221211D	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221733B	MSD	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M221903	MSD	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M261236	MSD	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M261843	MSD	3546	1625C	IV

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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
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M261915	MSD	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MSD	P164941M322108A	MSD	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221009	MS	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221208A	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221208C	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221208D	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221730B	MS	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R221859	MS	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R261202	MS	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R261826	MS	3546	1625C	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R261841	MS	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R270028A	MS	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R271230A	MS	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R271535A	MS	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0MS	P164941R322052A	MS	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3050B	6010B	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3050B	6020	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3060A	7199	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3546	1625C	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8082	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8270C	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	3550B	8270C SIM	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	5035	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	5035	8260B	IV

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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
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	5035	8260B SIM	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	8330	8330A	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	Gen Prep	9045M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	300.0	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	314.0	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	7471A	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	8015B	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	8015M	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	8315A	IV
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164942	N	METHOD	9012B	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3050B	6010B	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3050B	6020	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3060A	7199	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8081A	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8082	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8151A	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8270C	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	3550B	8270C SIM	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	Gen Prep	9045M	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	METHOD	300.0	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	METHOD	314.0	IV
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164950	N	METHOD	7471A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3050B	6010B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3050B	6020	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3060A	7199	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3546	1625C	IV

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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
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8082	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8270C	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	3550B	8270C SIM	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	5035	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	5035	8260B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	5035	8260B SIM	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	8330	8330A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	Gen Prep	9045M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	300.0	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	314.0	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	7471A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	8315A	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164946	N	METHOD	9012B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0DUP	P164946D272028B	DUP	METHOD	9012B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0DUP	P164946D291300B	DUP	Gen Prep	9045M	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0MS	P164946R210016A	MS	5035	8260B	IV
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0MS	P164946R272029B	MS	METHOD	9012B	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3050B	6010B	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3050B	6020	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3060A	7199	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8081A	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8082	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8151A	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8270C	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	3550B	8270C SIM	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	Gen Prep	9045M	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	300.0	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	314.0	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	6850	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164948	N	METHOD	7471A	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5MSD	P164948M241816A	MSD	METHOD	6850	IV
14-Dec-2010	SED-024-SIV-SD-0.0-0.5MS	P164948R241809A	MS	METHOD	6850	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3050B	6010B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3050B	6020	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3060A	7199	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3546	1625C	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8082	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8270C	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	3550B	8270C SIM	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	5035	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	5035	8260B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	5035	8260B SIM	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	8330	8330A	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	Gen Prep	9045M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	300.0	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	314.0	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	7471A	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	8015B	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	8015M	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	8315A	IV
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164945	N	METHOD	9012B	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3005A	6010B	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3020A	6020	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8081A	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8082	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8270C	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	3510C	8270C SIM	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	5030B	8015M	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	5030B	8260B	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	5030B	8260B SIM	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	Gen Prep	300.0	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	Gen Prep	314.0	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	Gen Prep	7199	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	METHOD	7470A	IV
14-Dec-2010	EB02-SA5B-121410	6164944	EB	METHOD	8151A	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3050B	6010B	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3050B	6020	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3060A	7199	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8081A	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8082	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8151A	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8270C	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	3550B	8270C SIM	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	Gen Prep	300.0	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	Gen Prep	9045M	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	METHOD	314.0	IV
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164954	N	METHOD	7471A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3050B	6010B	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3050B	6020	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3060A	7199	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8081A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8082	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8151A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8270C	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	3550B	8270C SIM	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	Gen Prep	300.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	Gen Prep	9045M	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	METHOD	314.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164953	N	METHOD	7471A	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5DUP	P164953D270332B	DUP	Gen Prep	300.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5DUP	P164953D272024B	DUP	METHOD	314.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5MS	P164953R270346B	MS	Gen Prep	300.0	IV
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5MS	P164953R272048B	MS	METHOD	314.0	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3050B	6010B	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3050B	6020	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3060A	7199	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8081A	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8082	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8151A	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8270C	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	3550B	8270C SIM	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	Gen Prep	9045M	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	METHOD	300.0	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	METHOD	314.0	IV
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164951	N	METHOD	7471A	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3050B	6010B	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3050B	6020	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3060A	7199	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8081A	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8082	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8151A	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8270C	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	3550B	8270C SIM	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	Gen Prep	9045M	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	METHOD	300.0	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	METHOD	314.0	IV
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164952	N	METHOD	7471A	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3050B	6010B	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3050B	6020	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3060A	7199	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3550B	8082	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3550B	8270C	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	3550B	8270C SIM	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	5035	8260B	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	5035	8260B SIM	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	Gen Prep	9045M	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	METHOD	300.0	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	METHOD	314.0	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164947	N	METHOD	7471A	IV
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0DUP	P164947D291400A	DUP	Gen Prep	9045M	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3050B	6010B	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3050B	6020	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3060A	7199	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8081A	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8082	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8151A	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8270C	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	3550B	8270C SIM	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	Gen Prep	300.0	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	Gen Prep	9045M	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	METHOD	314.0	IV
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164956	N	METHOD	7471A	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3050B	6010B	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3050B	6020	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3060A	7199	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8081A	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8082	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8151A	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8270C	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	3550B	8270C SIM	IV

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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
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	Gen Prep	300.0	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	Gen Prep	9045M	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	METHOD	314.0	IV
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164955	N	METHOD	7471A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3050B	6010B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3050B	6020	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3060A	7199	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3546	1625C	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8015B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8015M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8082	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8270C	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	3550B	8270C SIM	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	5035	8015M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	5035	8260B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	5035	8260B SIM	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	8330	8330A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	Gen Prep	300.0	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	Gen Prep	9045M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	314.0	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	7471A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	8015B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	8015M	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	8315A	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164957	N	METHOD	9012B	IV
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0D	P164957D291400B	DUP	Gen Prep	9045M	IV

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SED-026-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.93	MDL	1.2	PQL	mg/Kg	J	Z, Q

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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
Nitrate-NO3	1.1	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.6	J	0.95	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.92	MDL	1.1	PQL	mg/Kg	J	Z, Q
Nitrate-NO3	1.3	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.84	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	0.0533	J	0.0522	MDL	0.200	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.54	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
LITHIUM	24.1		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	390		0.594	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	3120		19.1	MDL	53.1	PQL	mg/Kg	J	Q, A
SODIUM	79.9	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.34	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.900	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-023-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 9:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.969	MDL	5.44	PQL	mg/Kg	J	Z
LITHIUM	22.7		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	405		0.610	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3290		19.6	MDL	54.4	PQL	mg/Kg	J	Q, A
SODIUM	67.3	J	40.6	MDL	109	PQL	mg/Kg	J	Z
TIN	2.38	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.16	J	0.914	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.73	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
LITHIUM	24.5		0.25	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	434		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3150		20.2	MDL	56.2	PQL	mg/Kg	J	Q, A
SODIUM	68.9	J	41.9	MDL	112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-024-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 11:16:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.66	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.944	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	1.02	MDL	5.74	PQL	mg/Kg	J	Z
LITHIUM	25.7		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	437		0.643	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3830		20.7	MDL	57.4	PQL	mg/Kg	J	Q, A
SODIUM	112	J	42.8	MDL	115	PQL	mg/Kg	J	Z
TIN	2.97	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SED-027-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.15	J	1.03	MDL	5.79	PQL	mg/Kg	J	Z
LITHIUM	24.6		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	446		0.648	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	3150		20.8	MDL	57.9	PQL	mg/Kg	J	Q, A
SODIUM	86.1	J	43.2	MDL	116	PQL	mg/Kg	J	Z
TIN	2.57	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.31	J	0.972	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 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	2.97	J	0.939	MDL	5.28	PQL	mg/Kg	J	Z
LITHIUM	22.8		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	330		0.591	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2520		19.0	MDL	52.8	PQL	mg/Kg	J	Q, A
SODIUM	95.4	J	39.4	MDL	106	PQL	mg/Kg	J	Z
TIN	2.76	J	1.06	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-002-SA5C-SB-9.0-10.0 **Collected:** 12/14/2010 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	5.03	J	1.03	MDL	5.77	PQL	mg/Kg	J	Z
LITHIUM	27.6		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	421		0.646	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3910		20.8	MDL	57.7	PQL	mg/Kg	J	Q, A
TIN	3.01	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.23	J	0.970	MDL	5.77	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 **Collected:** 12/14/2010 11:11:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	1.02	MDL	5.74	PQL	mg/Kg	J	Z
LITHIUM	28.2		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	311		0.643	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3660		20.7	MDL	57.4	PQL	mg/Kg	J	Q, A
TIN	2.90	J	1.15	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.75	J	0.964	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0 **Collected:** 12/14/2010 11:18:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	28.1		0.26	MDL	2.4	PQL	mg/Kg	J	A
PHOSPHORUS	468		0.666	MDL	11.9	PQL	mg/Kg	J	Q
POTASSIUM	4790		21.4	MDL	59.5	PQL	mg/Kg	J	Q, A
TIN	2.81	J	1.19	MDL	11.9	PQL	mg/Kg	U	B
Zirconium	4.89	J	1.00	MDL	5.95	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0 **Collected:** 12/14/2010 4:18:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.988	J	0.983	MDL	5.52	PQL	mg/Kg	J	Z
LITHIUM	31.9		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	537		0.618	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3500		19.9	MDL	55.2	PQL	mg/Kg	J	Q, A
TIN	2.92	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
BORON	2.74	J	0.921	MDL	5.18	PQL	mg/Kg	J	Z
LITHIUM	27.9		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	795		0.580	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	5670		18.6	MDL	51.8	PQL	mg/Kg	J	Q, A
SODIUM	89.2	J	38.6	MDL	104	PQL	mg/Kg	J	Z
TIN	2.99	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.36	J	0.870	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.45	J	0.925	MDL	5.19	PQL	mg/Kg	J	Z
LITHIUM	27.4		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	736		0.582	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	4480		18.7	MDL	51.9	PQL	mg/Kg	J	Q, A
SODIUM	100	J	38.8	MDL	104	PQL	mg/Kg	J	Z
TIN	2.93	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	4.40	J	0.873	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.87	J	0.907	MDL	5.10	PQL	mg/Kg	J	Z
LITHIUM	25.0		0.22	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	587		0.571	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	5080		18.4	MDL	51.0	PQL	mg/Kg	J	Q, A
SODIUM	78.0	J	38.0	MDL	102	PQL	mg/Kg	J	Z
TIN	3.05	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.857	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.49	J	0.904	MDL	5.08	PQL	mg/Kg	J	Z
LITHIUM	27.3		0.22	MDL	2.0	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	740		0.569	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	4580		18.3	MDL	50.8	PQL	mg/Kg	J	Q, A
SODIUM	84.5	J	37.9	MDL	102	PQL	mg/Kg	J	Z
TIN	2.55	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.853	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5C-SB-3.0-4.0 *Collected:* 12/14/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.76	J	0.952	MDL	5.35	PQL	mg/Kg	J	Z
LITHIUM	19.6		0.24	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	131		0.599	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	1450		19.3	MDL	53.5	PQL	mg/Kg	J	Q, A
TIN	2.61	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.898	MDL	5.35	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: AQ**

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* REA5 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000075	J	0.000052	MDL	0.0010	PQL	mg/L	J	Z

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* REA7 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.00032	J	0.00025	MDL	0.00050	PQL	mg/L	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-022-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 10:08:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.5		0.0110	MDL	0.212	PQL	mg/Kg	J	Q, E, A

Sample ID: SED-022-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 10:08:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SED-022-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 10:08:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.611		0.0531	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SED-022-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 10:08:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.115	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SED-022-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 10:08:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0637	MDL	0.212	PQL	mg/Kg	U	B
ARSENIC	5.23		0.0637	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.438		0.0170	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.358		0.0382	MDL	0.106	PQL	mg/Kg	UJ	Q, B
CHROMIUM	22.4		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E
COBALT	8.04		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	9.68		0.0700	MDL	0.424	PQL	mg/Kg	J	Q, E
NICKEL	12.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E
SILVER	0.0842	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.377		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	44.8		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	99.0		0.594	MDL	3.18	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SED-023-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 9:19:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	14.2		0.0115	MDL	0.222	PQL	mg/Kg	J	Q, E, A

Sample ID: **SED-023-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 9:19:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.313	J	0.0444	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: **SED-023-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 9:19:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.678		0.0555	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SED-023-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 9:19:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.120	MDL	0.444	PQL	mg/Kg	J	E, A

Sample ID: **SED-023-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 9:19:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.235		0.0666	MDL	0.222	PQL	mg/Kg	U	B
ARSENIC	6.07		0.0666	MDL	0.444	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.472		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.216		0.0400	MDL	0.111	PQL	mg/Kg	UJ	Q, B
CHROMIUM	23.2		0.133	MDL	0.444	PQL	mg/Kg	J	Q, E
COBALT	7.05		0.0222	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	10.5		0.0733	MDL	0.444	PQL	mg/Kg	J	Q, E
NICKEL	14.0		0.111	MDL	0.444	PQL	mg/Kg	J	Q, E
SILVER	0.0467	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.357		0.0333	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	48.9		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	93.4		0.622	MDL	3.33	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.570		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.6		0.120	MDL	0.445	PQL	mg/Kg	J	E, A

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.194	J	0.0668	MDL	0.223	PQL	mg/Kg	U	B
ARSENIC	4.96		0.0668	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.455		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.251		0.0401	MDL	0.111	PQL	mg/Kg	UJ	Q, B
CHROMIUM	21.8		0.134	MDL	0.445	PQL	mg/Kg	J	Q, E
COBALT	7.26		0.0223	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	10.3		0.0735	MDL	0.445	PQL	mg/Kg	J	Q, E
LEAD	16.7		0.0116	MDL	0.223	PQL	mg/Kg	J	Q, E, A
NICKEL	14.2		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E
SILVER	0.0600	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.300		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	48.1		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, E
ZINC	82.8		0.623	MDL	3.34	PQL	mg/Kg	J	E, A

Sample ID: SED-026-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:22:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.260		0.0413	MDL	0.115	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0459	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.940		0.0574	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.124	MDL	0.459	PQL	mg/Kg	J	E, A

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.128	J	0.0689	MDL	0.230	PQL	mg/Kg	U	B
ARSENIC	6.61		0.0689	MDL	0.459	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.666		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.138	MDL	0.459	PQL	mg/Kg	J	Q, E
COBALT	7.27		0.0230	MDL	0.115	PQL	mg/Kg	J	Q
COPPER	11.3		0.0758	MDL	0.459	PQL	mg/Kg	J	Q, E
LEAD	19.5		0.0119	MDL	0.230	PQL	mg/Kg	J	Q, E, A
NICKEL	15.0		0.115	MDL	0.459	PQL	mg/Kg	J	Q, E
SILVER	0.575		0.0138	MDL	0.115	PQL	mg/Kg	J	Q
THALLIUM	0.465		0.0345	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	46.8		0.0253	MDL	0.115	PQL	mg/Kg	J	Q, E
ZINC	105		0.643	MDL	3.45	PQL	mg/Kg	J	E, A

Sample ID: SED-027-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:59:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.225	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.731		0.0567	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.123	MDL	0.454	PQL	mg/Kg	J	E, A

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.164	J	0.0681	MDL	0.227	PQL	mg/Kg	U	B
ARSENIC	6.17		0.0681	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.500		0.0182	MDL	0.113	PQL	mg/Kg	J	Q
CADMIUM	0.259		0.0408	MDL	0.113	PQL	mg/Kg	UJ	Q, B
CHROMIUM	26.8		0.136	MDL	0.454	PQL	mg/Kg	J	Q, E
COBALT	7.14		0.0227	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	10.6		0.0749	MDL	0.454	PQL	mg/Kg	J	Q, E
LEAD	16.2		0.0118	MDL	0.227	PQL	mg/Kg	J	Q, E, A
NICKEL	15.8		0.113	MDL	0.454	PQL	mg/Kg	J	Q, E
SILVER	0.146		0.0136	MDL	0.113	PQL	mg/Kg	J	Q
THALLIUM	0.347		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	54.9		0.0250	MDL	0.113	PQL	mg/Kg	J	Q, E
ZINC	88.1		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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	0.101	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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	0.470		0.0528	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 9:42:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.6		0.114	MDL	0.422	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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	0.160	J	0.0633	MDL	0.211	PQL	mg/Kg	U	B
ARSENIC	5.59		0.0633	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.531		0.0169	MDL	0.106	PQL	mg/Kg	J	Q
CADMIUM	0.0891	J	0.0380	MDL	0.106	PQL	mg/Kg	UJ	Q, B
CHROMIUM	14.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E
COBALT	5.63		0.0211	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	5.77		0.0697	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	4.71		0.0110	MDL	0.211	PQL	mg/Kg	J	Q, E, A
NICKEL	8.46		0.106	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	0.0148	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.356		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	29.5		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	59.4		0.591	MDL	3.17	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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	0.186	J	0.0471	MDL	0.471	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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	0.624		0.0588	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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	160		0.127	MDL	0.471	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-002-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 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
ARSENIC	8.72		0.0706	MDL	0.471	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.902		0.0188	MDL	0.118	PQL	mg/Kg	J	Q
CADMIUM	0.454		0.0424	MDL	0.118	PQL	mg/Kg	J	Q
CHROMIUM	41.1		0.141	MDL	0.471	PQL	mg/Kg	J	Q, E
COBALT	9.79		0.0235	MDL	0.118	PQL	mg/Kg	J	Q
COPPER	16.7		0.0777	MDL	0.471	PQL	mg/Kg	J	Q, E
LEAD	13.1		0.0122	MDL	0.235	PQL	mg/Kg	J	Q, E, A
NICKEL	19.9		0.118	MDL	0.471	PQL	mg/Kg	J	Q, E
SILVER	0.0442	J	0.0141	MDL	0.118	PQL	mg/Kg	J	Z, Q
THALLIUM	0.381		0.0353	MDL	0.118	PQL	mg/Kg	J	Q
VANADIUM	76.0		0.0259	MDL	0.118	PQL	mg/Kg	J	Q, E
ZINC	80.0		0.659	MDL	3.53	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 11:11:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0746	J	0.0473	MDL	0.473	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 11:11:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.470		0.0591	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-004-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 11:11:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.128	MDL	0.473	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 11:11:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.70		0.0709	MDL	0.473	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.928		0.0189	MDL	0.118	PQL	mg/Kg	J	Q
CADMIUM	0.237		0.0425	MDL	0.118	PQL	mg/Kg	UJ	Q, B
CHROMIUM	39.0		0.142	MDL	0.473	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-004-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 11:11:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.82		0.0236	MDL	0.118	PQL	mg/Kg	J	Q
COPPER	15.8		0.0780	MDL	0.473	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0123	MDL	0.236	PQL	mg/Kg	J	Q, E, A
NICKEL	17.8		0.118	MDL	0.473	PQL	mg/Kg	J	Q, E
SILVER	0.0893	J	0.0142	MDL	0.118	PQL	mg/Kg	J	Z, Q
THALLIUM	0.422		0.0354	MDL	0.118	PQL	mg/Kg	J	Q
VANADIUM	71.3		0.0260	MDL	0.118	PQL	mg/Kg	J	Q, E
ZINC	70.9		0.662	MDL	3.54	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 11:18:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.252	J	0.0467	MDL	0.467	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 11:18:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.801		0.0583	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SL-004-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 11:18:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.126	MDL	0.467	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 11:18:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.20		0.0700	MDL	0.467	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.889		0.0187	MDL	0.117	PQL	mg/Kg	J	Q
CADMIUM	0.454		0.0420	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	43.0		0.140	MDL	0.467	PQL	mg/Kg	J	Q, E
COBALT	10.0		0.0233	MDL	0.117	PQL	mg/Kg	J	Q
COPPER	17.9		0.0770	MDL	0.467	PQL	mg/Kg	J	Q, E
LEAD	14.0		0.0121	MDL	0.233	PQL	mg/Kg	J	Q, E, A
NICKEL	20.3		0.117	MDL	0.467	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-004-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 11:18:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0645	J	0.0140	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.439		0.0350	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	79.2		0.0257	MDL	0.117	PQL	mg/Kg	J	Q, E
ZINC	96.1		0.653	MDL	3.50	PQL	mg/Kg	J	E, A

Sample ID: SL-060-SA5C-SB-10.0-11.0 ***Collected:*** 12/14/2010 4:18:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.268	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0 ***Collected:*** 12/14/2010 4:18:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5C-SB-10.0-11.0 ***Collected:*** 12/14/2010 4:18:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.119	MDL	0.442	PQL	mg/Kg	J	E, A

Sample ID: SL-060-SA5C-SB-10.0-11.0 ***Collected:*** 12/14/2010 4:18:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	12.5		0.0662	MDL	0.442	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.913		0.0177	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.220		0.0397	MDL	0.110	PQL	mg/Kg	UJ	Q, B
CHROMIUM	37.4		0.132	MDL	0.442	PQL	mg/Kg	J	Q, E
COBALT	11.7		0.0221	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	19.2		0.0729	MDL	0.442	PQL	mg/Kg	J	Q, E
LEAD	12.3		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	23.8		0.110	MDL	0.442	PQL	mg/Kg	J	Q, E
SILVER	0.0336	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.657		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	71.0		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, E
ZINC	119		0.618	MDL	3.31	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:00:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	14.3		0.0108	MDL	0.207	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0414	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
MOLYBDENUM	1.26		0.0518	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:00:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.112	MDL	0.414	PQL	mg/Kg	J	E, A

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 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
ARSENIC	9.40		0.0621	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.893		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.489		0.0373	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	37.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E
COBALT	9.90		0.0207	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	21.3		0.0683	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	23.4		0.104	MDL	0.414	PQL	mg/Kg	J	Q, E
SILVER	0.414		0.0124	MDL	0.104	PQL	mg/Kg	J	Q
THALLIUM	0.522		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	63.6		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	146		0.580	MDL	3.11	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	16.5		0.0108	MDL	0.208	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.0416	MDL	0.416	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.11		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.112	MDL	0.416	PQL	mg/Kg	J	E, A

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.68		0.0623	MDL	0.416	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.852		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.387		0.0374	MDL	0.104	PQL	mg/Kg	UJ	Q, B
CHROMIUM	34.5		0.125	MDL	0.416	PQL	mg/Kg	J	Q, E
COBALT	9.55		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	19.2		0.0686	MDL	0.416	PQL	mg/Kg	J	Q, E
NICKEL	20.6		0.104	MDL	0.416	PQL	mg/Kg	J	Q, E
SILVER	0.342		0.0125	MDL	0.104	PQL	mg/Kg	J	Q
THALLIUM	0.435		0.0312	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	60.5		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	140		0.582	MDL	3.12	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.307		0.0378	MDL	0.105	PQL	mg/Kg	UJ	Q, B
LEAD	16.6		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.225	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.113	MDL	0.420	PQL	mg/Kg	J	E, A

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.233		0.0630	MDL	0.210	PQL	mg/Kg	U	B
ARSENIC	8.40		0.0630	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.838		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	46.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E
COBALT	10.3		0.0210	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	19.9		0.0693	MDL	0.420	PQL	mg/Kg	J	Q, E
NICKEL	27.5		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E
SILVER	0.0991	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.479		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	59.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	118		0.588	MDL	3.15	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	16.0		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.242	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.23		0.0523	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.113	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	10.9		0.0627	MDL	0.418	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.03		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.468		0.0376	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.0		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E
COBALT	10.4		0.0209	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	21.9		0.0690	MDL	0.418	PQL	mg/Kg	J	Q, E
NICKEL	22.6		0.105	MDL	0.418	PQL	mg/Kg	J	Q, E
SILVER	0.133		0.0125	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.491		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	64.6		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	157		0.585	MDL	3.14	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-140-SA5C-SB-3.0-4.0 ***Collected:*** 12/14/2010 2:28:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0532	J	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SL-140-SA5C-SB-3.0-4.0 ***Collected:*** 12/14/2010 2:28:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.412		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-140-SA5C-SB-3.0-4.0 ***Collected:*** 12/14/2010 2:28:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.119	MDL	0.441	PQL	mg/Kg	J	E, A

Sample ID: SL-140-SA5C-SB-3.0-4.0 ***Collected:*** 12/14/2010 2:28:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0661	MDL	0.220	PQL	mg/Kg	U	B
ARSENIC	6.88		0.0661	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.666		0.0176	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.0533	J	0.0396	MDL	0.110	PQL	mg/Kg	UJ	Q, B
CHROMIUM	24.6		0.132	MDL	0.441	PQL	mg/Kg	J	Q, E
COBALT	4.65		0.0220	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	8.83		0.0727	MDL	0.441	PQL	mg/Kg	J	Q, E
LEAD	8.73		0.0115	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	11.0		0.110	MDL	0.441	PQL	mg/Kg	J	Q, E
SILVER	0.0480	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.352		0.0330	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	50.1		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, E
ZINC	49.0		0.617	MDL	3.30	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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	0.51	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SED-023-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 9:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SED-027-SIV-SD-0.0-0.5 **Collected:** 12/14/2010 3:59:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0513	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0 **Collected:** 12/14/2010 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	0.0046	J	0.0034	MDL	0.119	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 **Collected:** 12/14/2010 11:11:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0033	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0 **Collected:** 12/14/2010 11:18:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0068	J	0.0034	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 2:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 2:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 1:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0117	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0101	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: PrepDE039_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-140-SA5C-SB-3.0-4.0 *Collected:* 12/14/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0063	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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
Propylene glycol	5.3	U	5.3	MDL	13	PQL	mg/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 9:42:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.59	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.74	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 9:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.96	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *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)	1.1	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-004-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 11:18:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	6.0	U	6.0	MDL	15	PQL	mg/Kg	UJ	L

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.7	U	5.7	MDL	14	PQL	mg/Kg	UJ	L

Method Category: SVOA

Method: 8081A **Matrix: AQ**

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.0048	U	0.0048	MDL	0.019	PQL	ug/L	UJ	C
ENDOSULFAN II	0.014	U	0.014	MDL	0.019	PQL	ug/L	UJ	C

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *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	0.96	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z
4,4'-DDT	1.6	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z, *XIII
DELTA-BHC	2.6		0.39	MDL	1.8	PQL	ug/Kg	J	*XIII
ENDRIN ALDEHYDE	1.8	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	2.7		0.37	MDL	1.8	PQL	ug/Kg	J	*XIII

Sample ID: SED-023-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 9:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.26	J	0.20	MDL	0.93	PQL	ug/Kg	J	Z, *XIII
HEPTACHLOR	0.56	J	0.34	MDL	0.93	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: PrepDE039_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.93	J	0.21	MDL	0.95	PQL	ug/Kg	J	Z, *XIII
HEPTACHLOR	0.39	J	0.34	MDL	0.95	PQL	ug/Kg	J	Z, *XIII

Sample ID: SED-026-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:22:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	4.4		0.38	MDL	2.0	PQL	ug/Kg	J	C

Sample ID: SED-026-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.9	U	1.9	MDL	1.9	PQL	ug/Kg	UJ	C
ALPHA-BHC	0.066	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z, *XIII
DIELDRIN	0.87	U	0.87	MDL	0.87	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.051	U	0.051	MDL	0.19	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.092	U	0.092	MDL	0.39	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	UJ	C
ENDRIN	0.077	U	0.077	MDL	0.39	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.64	U	0.64	MDL	0.64	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.077	U	0.077	MDL	0.39	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.16	U	0.16	MDL	0.19	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.49	U	0.49	MDL	1.9	PQL	ug/Kg	UJ	C
MIREX	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	C

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.69	U	0.69	MDL	0.69	PQL	ug/Kg	UJ	C
4,4'-DDT	2.2	U	2.2	MDL	2.2	PQL	ug/Kg	UJ	C
DIELDRIN	0.22	U	0.22	MDL	0.39	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.051	U	0.051	MDL	0.19	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.13	U	0.13	MDL	0.39	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.49		0.076	MDL	0.39	PQL	ug/Kg	J	C
ENDRIN	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.61	U	0.61	MDL	0.61	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.39	U	0.39	MDL	0.39	PQL	ug/Kg	UJ	C
METHOXYCHLOR	1.3	U	1.3	MDL	1.9	PQL	ug/Kg	UJ	C
MIREX	0.61	U	0.61	MDL	0.61	PQL	ug/Kg	UJ	C

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.12	J	0.063	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.042	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.065	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	2.4	U	2.4	MDL	2.4	PQL	ug/Kg	UJ	C
4,4'-DDT	0.90	U	0.90	MDL	0.90	PQL	ug/Kg	UJ	C
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.31	U	0.31	MDL	0.36	PQL	ug/Kg	UJ	C
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.12	U	0.12	MDL	0.18	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	C
MIREX	0.26	U	0.26	MDL	0.36	PQL	ug/Kg	UJ	C

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.99	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z
4,4'-DDT	7.9		0.70	MDL	3.6	PQL	ug/Kg	J	C, M
DIELDRIN	1.0	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z, C, *XIII
ENDOSULFAN I	0.46	U	0.46	MDL	1.8	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C
ENDOSULFAN SULFATE	1.8	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z, C
ENDRIN	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C
ENDRIN ALDEHYDE	0.86	J	0.70	MDL	3.6	PQL	ug/Kg	J	Z, C, *XIII
ENDRIN KETONE	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	C
METHOXYCHLOR	3.6	U	3.6	MDL	18	PQL	ug/Kg	UJ	C
MIREX	0.70	U	0.70	MDL	3.6	PQL	ug/Kg	UJ	C

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.065	J	0.063	MDL	0.18	PQL	ug/Kg	J	Z
DELTA-BHC	0.093	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z, *XIII
gamma-BHC (Lindane)	0.058	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z, *XIII

Method Category: SVOA

Method: 8082 **Matrix:** AQ

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.096	U	0.096	MDL	0.48	PQL	ug/L	UJ	L
Aroclor 5442	0.096	U	0.096	MDL	0.48	PQL	ug/L	UJ	L
Aroclor 5460	0.096	U	0.096	MDL	0.48	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	22	U	22	MDL	71	PQL	ug/Kg	UJ	L
Aroclor 5442	22	U	22	MDL	71	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-022-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 10:08:00 ***Analysis Type:*** RES ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	22	U	22	MDL	71	PQL	ug/Kg	UJ	L

Sample ID: SED-023-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 9:19:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, *XIII
AROCLOR 1260	0.70	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SED-024-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 11:16:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.4		0.38	MDL	1.9	PQL	ug/Kg	J	S, *XIII
AROCLOR 1260	1.5	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	3.1	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, S, L

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	17		0.77	MDL	3.9	PQL	ug/Kg	J	S
AROCLOR 1254	18		0.77	MDL	3.9	PQL	ug/Kg	J	S, *XIII
AROCLOR 1260	12		0.77	MDL	3.9	PQL	ug/Kg	J	S
Aroclor 5432	2.3	U	2.3	MDL	7.7	PQL	ug/Kg	UJ	L
Aroclor 5442	2.3	U	2.3	MDL	7.7	PQL	ug/Kg	UJ	L
Aroclor 5460	22		2.3	MDL	7.7	PQL	ug/Kg	J	S, L

Sample ID: SED-027-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:59:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	11		0.76	MDL	3.9	PQL	ug/Kg	J	S, *XIII
Aroclor 5432	2.3	U	2.3	MDL	7.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	2.3	U	2.3	MDL	7.6	PQL	ug/Kg	UJ	L
Aroclor 5460	3.6	J	2.3	MDL	7.6	PQL	ug/Kg	J	Z, S, L

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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
Aroclor 5432	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 11:18:00 *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	0.40	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.0	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *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	0.38	MDL	2.0	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-125-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	21		0.35	MDL	1.8	PQL	ug/Kg	J	S, *XIII
AROCLOR 1260	3.1		0.35	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	22		1.1	MDL	3.5	PQL	ug/Kg	J	S, L

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *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 1260	0.50	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, S, *XIII
Aroclor 5432	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.0	U	1.0	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SL-128-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	9.8		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	11	U	11	MDL	35	PQL	ug/Kg	UJ	L
Aroclor 5442	11	U	11	MDL	35	PQL	ug/Kg	UJ	L
Aroclor 5460	18	J	11	MDL	35	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-140-SA5C-SB-3.0-4.0 *Collected:* 12/14/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A **Matrix:** AQ

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.0097	U	0.0097	MDL	0.049	PQL	ug/L	UJ	C
DALAPON	0.24	U	0.24	MDL	1.2	PQL	ug/L	UJ	C, C
DICHLOROPROP	0.16	U	0.16	MDL	0.49	PQL	ug/L	UJ	C
DINOSEB	0.097	U	0.097	MDL	0.49	PQL	ug/L	UJ	C

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.38		0.089	MDL	0.18	PQL	ug/Kg	J	S, *IX
DALAPON	4.8	U	4.8	MDL	9.7	PQL	ug/Kg	UJ	C, C
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L
MCPA	1800		82	MDL	270	PQL	ug/Kg	J	S, C

Sample ID: SED-023-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 9:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.9	U	4.9	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	0.69	J	0.45	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L
MCPA	85	U	85	MDL	280	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: PrepDE039_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	5.0	U	5.0	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	1.0	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L
MCPA	87	U	87	MDL	290	PQL	ug/Kg	UJ	C

Sample ID: SED-026-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	5.1	U	5.1	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	0.57	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z, S, *IX
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	1200		88	MDL	290	PQL	ug/Kg	J	S, C

Sample ID: SED-027-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	5.1	U	5.1	MDL	10	PQL	ug/Kg	UJ	C, C
DICAMBA	1.3	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	240	U	240	MDL	290	PQL	ug/Kg	UJ	C

Sample ID: SL-125-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
DALAPON	4.6	U	4.6	MDL	9.5	PQL	ug/Kg	UJ	C, C
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	80	U	80	MDL	260	PQL	ug/Kg	UJ	C

Sample ID: SL-126-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.4	PQL	ug/Kg	UJ	C, C
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	80	U	80	MDL	260	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-128-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.5	PQL	ug/Kg	UJ	C, C
DICAMBA	0.42	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z, S, *IX
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPA	3200		81	MDL	270	PQL	ug/Kg	J	S, C

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.6	U	4.6	MDL	9.5	PQL	ug/Kg	UJ	C, C
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	590		80	MDL	260	PQL	ug/Kg	J	S, C

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SED-026-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 3:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	47	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-140-SA5C-SB-3.0-4.0 *Collected:* 12/14/2010 2:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	50	J	19	MDL	370	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BENZO(K)FLUORANTHENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.16	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.060	J	0.052	MDL	1.0	PQL	ug/L	U	B
CHRYSENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
Diethylphthalate	0.12	J	0.052	MDL	1.0	PQL	ug/L	J	Z, L
Dimethylphthalate	0.052	U	0.052	MDL	1.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.15	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.083	J	0.052	MDL	1.0	PQL	ug/L	J	Z
FLUORANTHENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
NAPHTHALENE	0.027	J	0.010	MDL	0.052	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

Method Category: SVOA

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

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.68	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: PrepDE039_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.4	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	5.6		0.36	MDL	1.8	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.5	U	6.5	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.5	U	6.5	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	16		0.72	MDL	1.8	PQL	ug/Kg	J	L
FLUORENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, L

Sample ID: SED-023-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 9:19:00 *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(B)FLUORANTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.75	U	0.75	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
FLUORANTHENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z, L
FLUORENE	0.75	U	0.75	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.75	U	0.75	MDL	1.9	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *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	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

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

Sample ID: **SED-024-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 11:16:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
FLUORANTHENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z, L
FLUORENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	L
NAPHTHALENE	1.5	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.95	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SED-026-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 3:22:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ANTHRACENE	1.0	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.8	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	9.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	5.1		0.39	MDL	1.9	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	8.6		0.77	MDL	1.9	PQL	ug/Kg	J	L
FLUORENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, L

Sample ID: **SED-027-SIV-SD-0.0-0.5** ***Collected:*** **12/14/2010 3:59:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.85	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, L
FLUORENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
PHENANTHRENE	1.0	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-002-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 9:42:00 ***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	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	Q, L
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
FLUORENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-002-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 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
CHRYSENE	0.41	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
Diethylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
FLUORENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 11:11:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	7.2	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.50	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
Diethylphthalate	7.2	U	7.2	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.2	U	7.2	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
FLUORENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-004-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 11:18:00 ***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	7.2	MDL	22	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

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

Sample ID: **SL-004-SA5C-SB-9.0-10.0** ***Collected:*** **12/14/2010 11:18:00** ***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	0.53	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
Diethylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.2	U	7.2	MDL	22	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
FLUORENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: **SL-060-SA5C-SB-10.0-11.0** ***Collected:*** **12/14/2010 4:18:00** ***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	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.9	U	6.9	MDL	21	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
FLUORENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: **SL-125-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 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
CHRYSENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
FLUORENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: **SL-126-SA5B-SS-0.0-0.5** ***Collected:*** **12/14/2010 2:20:00** ***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	0.82	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.73	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-126-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z, L
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	L
Diethylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	1.7	J	0.70	MDL	1.7	PQL	ug/Kg	J	L
FLUORENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	L
PHENANTHRENE	0.75	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.86	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.41	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
Butylbenzylphthalate	10	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	4.9		0.35	MDL	1.8	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	7.0	J	6.4	MDL	19	PQL	ug/Kg	J	Z, L
FLUORANTHENE	7.8		0.71	MDL	1.8	PQL	ug/Kg	J	L
FLUORENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, L
NAPHTHALENE	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:45:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
Diethylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.3	U	6.3	MDL	19	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
FLUORENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.70	U	0.70	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-140-SA5C-SB-3.0-4.0 *Collected:* 12/14/2010 2:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
DIBENZO(A,H)ANTHRACENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L
Diethylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L
FLUORENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8330A **Matrix: SO**

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 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
Tetryl	82	U	82	MDL	160	PQL	ug/Kg	UJ	C

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 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
Tetryl	92	U	92	MDL	180	PQL	ug/Kg	UJ	C

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	91	U	91	MDL	180	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory:** LL

EDD Filename: PrepDE039_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: SL-004-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 11:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	92	U	92	MDL	180	PQL	ug/Kg	UJ	C

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	88	U	88	MDL	170	PQL	ug/Kg	UJ	C

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 9:42:00 *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	530	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	410	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	110	MDL	570	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C
Chlorotrifluoroethylene	2	U	2	MDL	5	PQL	ug/L	UJ	C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: PrepDE039_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-002-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 9:42:00 *Analysis Type:* RES *Dilution:* 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.7	U	1.7	MDL	8.5	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	1.2	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 9:50:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.6	J	1.3	MDL	8.3	PQL	ug/Kg	J	Z
2-HEXANONE	1.7	U	1.7	MDL	8.3	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	0.88	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.8	U	1.8	MDL	8.8	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	0.97	J	0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 11:18:00 *Analysis Type:* RES *Dilution:* 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	3.4	J	1.2	MDL	7.7	PQL	ug/Kg	J	Z
2-HEXANONE	1.5	U	1.5	MDL	7.7	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	1.1	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-HEXANONE	1.6	U	1.6	MDL	7.9	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	3.3	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: **SL-140-SA5C-SB-3.0-4.0** ***Collected:*** **12/14/2010 2:28:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.94**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2-HEXANONE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	C, C
METHYLENE CHLORIDE	2.8	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XIII and *IX	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: PrepDE039_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE039

Method Blank Outlier Report

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: DE039_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB02-SA5B-121410
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB02-SA5B-121410

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35108IB221836	12/22/2010 6:36:00 PM	PHOSPHORUS POTASSIUM TIN	1.51 mg/Kg 31.3 mg/Kg 1.41 mg/Kg	SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-022-SIV-SD-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SED-023-SIV-SD-0.0-0.5(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SED-024-SIV-SD-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SED-026-SIV-SD-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SED-027-SIV-SD-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-125-SA5B-SS-0.0-0.5(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-126-SA5B-SS-0.0-0.5(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-128-SA5B-SS-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-129-SA5B-SS-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: DE039_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35126DB221153A	12/26/2010 11:53:00 AM	CADMIUM COPPER LEAD THALLIUM VANADIUM	0.0774 mg/Kg 0.0704 mg/Kg 0.0185 mg/Kg 0.0412 mg/Kg 0.0507 mg/Kg	SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-022-SIV-SD-0.0-0.5(RES)	CADMIUM	0.358 mg/Kg	0.358U mg/Kg
SED-023-SIV-SD-0.0-0.5(RES)	CADMIUM	0.216 mg/Kg	0.216U mg/Kg
SED-024-SIV-SD-0.0-0.5(RES)	CADMIUM	0.251 mg/Kg	0.251U mg/Kg
SED-026-SIV-SD-0.0-0.5(REA)	CADMIUM	0.260 mg/Kg	0.260U mg/Kg
SED-027-SIV-SD-0.0-0.5(RES)	CADMIUM	0.259 mg/Kg	0.259U mg/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	CADMIUM	0.0891 mg/Kg	0.0891U mg/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	CADMIUM	0.237 mg/Kg	0.237U mg/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	CADMIUM	0.220 mg/Kg	0.220U mg/Kg
SL-126-SA5B-SS-0.0-0.5(RES)	CADMIUM	0.387 mg/Kg	0.387U mg/Kg
SL-128-SA5B-SS-0.0-0.5(REA)	CADMIUM	0.307 mg/Kg	0.307U mg/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	CADMIUM	0.0533 mg/Kg	0.0533U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB18B211848A	12/16/2010 6:48:00 PM	CHLOROFORM METHYLENE CHLORIDE	0.37 ug/Kg 1.0 ug/Kg	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-140-SA5C-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.2U ug/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	0.88 ug/Kg	4.1U ug/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.97 ug/Kg	4.4U ug/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.9U ug/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	METHYLENE CHLORIDE	3.3 ug/Kg	4.0U ug/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	2.8 ug/Kg	4.2U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: DE039_v1. eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH35B261352	1/4/2011 1:52:00 PM	Butylbenzylphthalate	0.055 ug/L	EB02-SA5B-121410

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB02-SA5B-121410(RES)	Butylbenzylphthalate	0.060 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_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-129-SA5B-SS-0.0-0.5MS (SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5)	FLUORIDE	65	-	80.00-120.00	-	FLUORIDE	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-002-SA5C-SB-4.0-5.0MSD (SL-002-SA5C-SB-4.0-5.0)	DIETHYLENE GLYCOL	-	-	59.00-109.00	36 (20.00)	DIETHYLENE GLYCOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS	ARSENIC	292	228	75.00-125.00	-	ARSENIC	
SL-002-SA5C-SB-4.0-5.0MSD	BERYLLIUM	197	149	75.00-125.00	-	BERYLLIUM	
(SED-022-SIV-SD-0.0-0.5	CADMIUM	169	171	75.00-125.00	-	CADMIUM	
SED-023-SIV-SD-0.0-0.5	CHROMIUM	211	194	75.00-125.00	-	CHROMIUM	
SED-024-SIV-SD-0.0-0.5	COBALT	149	143	75.00-125.00	-	COBALT	
SED-026-SIV-SD-0.0-0.5	COPPER	159	157	75.00-125.00	-	COPPER	
SED-027-SIV-SD-0.0-0.5	LEAD	257	229	75.00-125.00	-	LEAD	
SL-002-SA5C-SB-4.0-5.0	NICKEL	172	164	75.00-125.00	-	NICKEL	
SL-002-SA5C-SB-9.0-10.0	SILVER	173	163	75.00-125.00	-	SILVER	J(all detects)
SL-004-SA5C-SB-4.0-5.0	THALLIUM	224	203	75.00-125.00	-	THALLIUM	
SL-004-SA5C-SB-9.0-10.0	VANADIUM	264	249	75.00-125.00	-	VANADIUM	Zn No Qual,
SL-060-SA5C-SB-10.0-11.0	ZINC	365	304	75.00-125.00	-	ZINC	>4x
SL-125-SA5B-SS-0.0-0.5							
SL-126-SA5B-SS-0.0-0.5							
SL-128-SA5B-SS-0.0-0.5							
SL-129-SA5B-SS-0.0-0.5							
SL-140-SA5C-SB-3.0-4.0)							
SL-002-SA5C-SB-4.0-5.0MS	MOLYBDENUM	175	165	75.00-125.00	-	MOLYBDENUM	
SL-002-SA5C-SB-4.0-5.0MSD							
(SED-022-SIV-SD-0.0-0.5							
SED-023-SIV-SD-0.0-0.5							
SED-024-SIV-SD-0.0-0.5							
SED-026-SIV-SD-0.0-0.5							
SED-027-SIV-SD-0.0-0.5							
SL-002-SA5C-SB-4.0-5.0							
SL-002-SA5C-SB-9.0-10.0							J(all detects)
SL-004-SA5C-SB-4.0-5.0							
SL-004-SA5C-SB-9.0-10.0							
SL-060-SA5C-SB-10.0-11.0							
SL-125-SA5B-SS-0.0-0.5							
SL-126-SA5B-SS-0.0-0.5							
SL-128-SA5B-SS-0.0-0.5							
SL-129-SA5B-SS-0.0-0.5							
SL-140-SA5C-SB-3.0-4.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_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-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	BARIUM	472	400	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-002-SA5C-SB-4.0-5.0MS	ALUMINUM	1340	771	75.00-125.00	-	ALUMINUM	
SL-002-SA5C-SB-4.0-5.0MSD	CALCIUM	190	-	75.00-125.00	-	CALCIUM	
(SED-022-SIV-SD-0.0-0.5	MAGNESIUM	358	250	75.00-125.00	-	MAGNESIUM	
SED -023-SIV-SD-0.0-0.5	POTASSIUM	139	-	75.00-125.00	-	POTASSIUM	
SED -024-SIV-SD-0.0-0.5	TITANIUM	221	131	75.00-125.00	-	TITANIUM	
SED -026-SIV-SD-0.0-0.5							
SED -027-SIV-SD-0.0-0.5							
SL -002-SA5C-SB-4.0-5.0							
SL -002-SA5C-SB-9.0-10.0							J(all detects)
SL -004-SA5C-SB-4.0-5.0							
SL -004-SA5C-SB-9.0-10.0							Al, Ca, Mg, Ti
SL -060-SA5C-SB-10.0-11.0							No Qual, >4x
SL -125-SA5B-SS-0.0-0.5							
SL -126-SA5B-SS-0.0-0.5							
SL -128-SA5B-SS-0.0-0.5							
SL -129-SA5B-SS-0.0-0.5							
SL -140-SA5C-SB-3.0-4.0)							
SL-002-SA5C-SB-4.0-5.0MS	IRON	670	-620	75.00-125.00	-	IRON	
SL-002-SA5C-SB-4.0-5.0MSD							
(SED-022-SIV-SD-0.0-0.5							
SED -023-SIV-SD-0.0-0.5							
SED -024-SIV-SD-0.0-0.5							
SED -026-SIV-SD-0.0-0.5							
SED -027-SIV-SD-0.0-0.5							
SL -002-SA5C-SB-4.0-5.0							
SL -002-SA5C-SB-9.0-10.0							No Qual, >4x
SL -004-SA5C-SB-4.0-5.0							
SL -004-SA5C-SB-9.0-10.0							
SL -060-SA5C-SB-10.0-11.0							
SL -125-SA5B-SS-0.0-0.5							
SL -126-SA5B-SS-0.0-0.5							
SL -128-SA5B-SS-0.0-0.5							
SL -129-SA5B-SS-0.0-0.5							
SL -140-SA5C-SB-3.0-4.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_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-002-SA5C-SB-4.0-5.0MSD (SED-022-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-004-SA5C-SB-9.0-10.0 SL-060-SA5C-SB-10.0-11.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-140-SA5C-SB-3.0-4.0)	MANGANESE PHOSPHORUS	- -	55 66	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SL-002-SA5C-SB-4.0-5.0)	BENZIDINE	27	-	35.00-141.00	37 (30.00)	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA5C-SB-4.0-5.0MS SL-002-SA5C-SB-4.0-5.0MSD (SL-002-SA5C-SB-4.0-5.0)	Diethylphthalate	70	72	87.00-131.00	-	Diethylphthalate	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-129-SA5B-SS-0.0-0.5DUP (SED-026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -060-SA5C-SB-10.0-11.0 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	24 200	20.00 20.00	No Qual OK by difference
SL-002-SA5C-SB-4.0-5.0DUP (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	FLUORIDE	200	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5C-SB-4.0-5.0DUP (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	BORON Zirconium	39 200	20.00 20.00	No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE039 Laboratory: LL

EDD Filename: DE039_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5C-SB-4.0-5.0DUP	ARSENIC	29	20.00	
(SED-022-SIV-SD-0.0-0.5	BARIUM	33	20.00	
SED -023-SIV-SD-0.0-0.5	CHROMIUM	28	20.00	
SED -024-SIV-SD-0.0-0.5	COPPER	27	20.00	
SED -026-SIV-SD-0.0-0.5	LEAD	28	20.00	
SED -027-SIV-SD-0.0-0.5	MOLYBDENUM	32	20.00	
SL -002-SA5C-SB-4.0-5.0	NICKEL	26	20.00	
SL -002-SA5C-SB-9.0-10.0	SELENIUM	24	20.00	J(all detects)
SL -004-SA5C-SB-4.0-5.0	SILVER	30	20.00	UJ(all non-detects)
SL -004-SA5C-SB-9.0-10.0	VANADIUM	27	20.00	
SL -060-SA5C-SB-10.0-11.0	ZINC	30	20.00	Mo, Se, Ag
SL -125-SA5B-SS-0.0-0.5				No Qual
SL -126-SA5B-SS-0.0-0.5				OK by difference
SL -128-SA5B-SS-0.0-0.5				
SL -129-SA5B-SS-0.0-0.5				
SL -140-SA5C-SB-3.0-4.0)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-002-SA5C-SB-4.0-5.0DUP	HEXAVALENT CHROMIUM	30	20.00	
(SED-022-SIV-SD-0.0-0.5				
SED -023-SIV-SD-0.0-0.5				
SED -024-SIV-SD-0.0-0.5				
SED -026-SIV-SD-0.0-0.5				
SED -027-SIV-SD-0.0-0.5				
SL -002-SA5C-SB-4.0-5.0				
SL -002-SA5C-SB-9.0-10.0				No Qual
SL -004-SA5C-SB-4.0-5.0				OK by difference
SL -004-SA5C-SB-9.0-10.0				
SL -060-SA5C-SB-10.0-11.0				
SL -125-SA5B-SS-0.0-0.5				
SL -126-SA5B-SS-0.0-0.5				
SL -128-SA5B-SS-0.0-0.5				
SL -129-SA5B-SS-0.0-0.5				
SL -140-SA5C-SB-3.0-4.0)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03506AY241102A (EB02-SA5B-121410)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03507AQ240905A P03507AY240846A (EB02-SA5B-121410)	Aroclor 5442	58	56	75.00-125.00	-	Aroclor 5432, 5442, 5460	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
P0WBLCSY262212 (EB02-SA5B-121410)	1,2-Diphenylhydrazine/Azobenzen	-	118	78.00-116.00	-	1,2-Diphenylhydrazine/Azobenz	J(all detects)
	2,4,5-TRICHLOROPHENOL	-	108	79.00-107.00	-	2,4,5-TRICHLOROPHENOL	
	2,4-DICHLOROPHENOL	-	117	80.00-109.00	-	2,4-DICHLOROPHENOL	
	2,4-DIMETHYLPHENOL	-	117	72.00-110.00	-	2,4-DIMETHYLPHENOL	
	2-CHLOROPHENOL	-	109	77.00-108.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	-	102	64.00-101.00	-	2-METHYLPHENOL	
	DIBENZOFURAN	-	111	83.00-108.00	-	DIBENZOFURAN	
P0WBLCSY262212 (EB02-SA5B-121410)	BENZOIC ACID	-	-	10.00-69.00	44 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WHLCSQ261426 P0WHLCSY261500 (EB02-SA5B-121410)	1-METHYLNAPHTHALENE	-	69	71.00-117.00	-	1-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)
	2-METHYLNAPHTHALENE	71	66	75.00-115.00	-	2-METHYLNAPHTHALENE	
	BENZO(K)FLUORANTHENE	-	71	72.00-122.00	-	BENZO(K)FLUORANTHENE	
	CHRYSENE	75	-	76.00-116.00	-	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-	69	71.00-125.00	-	DIBENZO(A,H)ANTHRACENE	
	Diethylphthalate	67	65	70.00-130.00	-	Diethylphthalate	
	Dimethylphthalate	67	-	70.00-130.00	-	Dimethylphthalate	
	FLUORANTHENE	-	67	75.00-116.00	-	FLUORANTHENE	
	N-NITROSODIMETHYLAMINE	59	58	70.00-130.00	-	N-NITROSODIMETHYLAMINE	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03510AQ321635A (SL-002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0)	Propylene glycol	72	-	75.00-125.00	-	Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03519AQ241754A (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	METHOXYCHLOR	131	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03549AQ241013A P03549AY240955A (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	Aroclor 5442	58	55	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_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
P03575AQ241324A (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	2,4-D	144	-	40.00-140.00	-	2,4-D	J(all detects)
P03575AQ241324A (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LILCSQ261317 (SED-022-SIV-SD-0.0-0.5 SED -023-SIV-SD-0.0-0.5 SED -024-SIV-SD-0.0-0.5 SED -026-SIV-SD-0.0-0.5 SED -027-SIV-SD-0.0-0.5 SL -002-SA5C-SB-4.0-5.0 SL -002-SA5C-SB-9.0-10.0 SL -004-SA5C-SB-4.0-5.0 SL -004-SA5C-SB-9.0-10.0 SL -060-SA5C-SB-10.0-11.0 SL -125-SA5B-SS-0.0-0.5 SL -126-SA5B-SS-0.0-0.5 SL -128-SA5B-SS-0.0-0.5 SL -129-SA5B-SS-0.0-0.5 SL -140-SA5C-SB-3.0-4.0)	CHRYSENE	77	-	79.00-120.00	-	CHRYSENE	J(all detects) UJ(all non-detects)
	DIBENZO(A,H)ANTHRACENE	61	-	62.00-142.00	-	DIBENZO(A,H)ANTHRACENE	
	Diethylphthalate	63	-	68.00-125.00	-	Diethylphthalate	
	Di-n-butylphthalate	81	-	84.00-132.00	-	Di-n-butylphthalate	
	FLUORANTHENE	76	-	78.00-120.00	-	FLUORANTHENE	
	FLUORENE	69	-	71.00-120.00	-	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	61	-	62.00-141.00	-	INDENO(1,2,3-CD)PYRENE	

Surrogate Outlier Report

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-022-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SED-024-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	19	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
SED-023-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	132	45.00-120.00	All Target Analytes	J(all detects)
SED-024-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	142	45.00-120.00	All Target Analytes	J(all detects)
SED-026-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	185 195	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SED-027-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	155	45.00-120.00	All Target Analytes	J(all detects)
SL-002-SA5C-SB-4.0-5.0	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-060-SA5C-SB-10.0-11.0	DECACHLOROBIPHENYL	151	45.00-120.00	All Target Analytes	J(all detects)
SL-125-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	127	45.00-120.00	All Target Analytes	J(all detects)
SL-126-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	151	45.00-120.00	All Target Analytes	J(all detects)
SL-129-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	No Qual Diluted Out

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-022-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	231	36.00-156.00	All Target Analytes	J(all detects)
SED-026-SIV-SD-0.0-0.5	2,4-Dichlorophenylacetic acid	377	36.00-156.00	All Target Analytes	J(all detects)
SL-125-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	178	36.00-156.00	All Target Analytes	J(all detects)
SL-126-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	157	36.00-156.00	All Target Analytes	J(all detects)
SL-128-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	162	36.00-156.00	All Target Analytes	J(all detects)
SL-129-SA5B-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	193	36.00-156.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	IRON	J	0.0533	0.200	PQL	mg/L	J (all detects)

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	LEAD	J	0.000075	0.0010	PQL	mg/L	J (all detects)
	MOLYBDENUM	J	0.00032	0.00050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.16	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.060	1.0	PQL	ug/L	
	Diethylphthalate	J	0.12	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.15	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.083	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.027	0.052	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-027-SIV-SD-0.0-0.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.8	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.8	PQL	mg/Kg	J (all detects)
SL-060-SA5C-SB-10.0-11.0	FLUORIDE	J	0.95	1.1	PQL	mg/Kg	J (all detects)
	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	BORON	J	4.54	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.9	106	PQL	mg/Kg	
	TIN	J	2.34	10.6	PQL	mg/Kg	
	Zirconium	J	0.900	5.31	PQL	mg/Kg	
SED-023-SIV-SD-0.0-0.5	BORON	J	4.10	5.44	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.3	109	PQL	mg/Kg	
	TIN	J	2.38	10.9	PQL	mg/Kg	
	Zirconium	J	1.16	5.44	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-024-SIV-SD-0.0-0.5	BORON	J	3.73	5.62	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.9	112	PQL	mg/Kg	
	TIN	J	2.66	11.2	PQL	mg/Kg	
	Zirconium	J	1.51	5.62	PQL	mg/Kg	
SED-026-SIV-SD-0.0-0.5	BORON	J	4.12	5.74	PQL	mg/Kg	J (all detects)
	SODIUM	J	112	115	PQL	mg/Kg	
	TIN	J	2.97	11.5	PQL	mg/Kg	
SED-027-SIV-SD-0.0-0.5	BORON	J	4.15	5.79	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.1	116	PQL	mg/Kg	
	TIN	J	2.57	11.6	PQL	mg/Kg	
	Zirconium	J	1.31	5.79	PQL	mg/Kg	
SL-002-SA5C-SB-4.0-5.0	BORON	J	2.97	5.28	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.4	106	PQL	mg/Kg	
	TIN	J	2.76	10.6	PQL	mg/Kg	
SL-002-SA5C-SB-9.0-10.0	BORON	J	5.03	5.77	PQL	mg/Kg	J (all detects)
	TIN	J	3.01	11.5	PQL	mg/Kg	
	Zirconium	J	5.23	5.77	PQL	mg/Kg	
SL-004-SA5C-SB-4.0-5.0	BORON	J	4.55	5.74	PQL	mg/Kg	J (all detects)
	TIN	J	2.90	11.5	PQL	mg/Kg	
	Zirconium	J	3.75	5.74	PQL	mg/Kg	
SL-004-SA5C-SB-9.0-10.0	TIN	J	2.81	11.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.89	5.95	PQL	mg/Kg	
SL-060-SA5C-SB-10.0-11.0	BORON	J	0.988	5.52	PQL	mg/Kg	J (all detects)
	TIN	J	2.92	11.0	PQL	mg/Kg	
SL-125-SA5B-SS-0.0-0.5	BORON	J	2.74	5.18	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.2	104	PQL	mg/Kg	
	TIN	J	2.99	10.4	PQL	mg/Kg	
	Zirconium	J	1.36	5.18	PQL	mg/Kg	
SL-126-SA5B-SS-0.0-0.5	BORON	J	2.45	5.19	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	104	PQL	mg/Kg	
	TIN	J	2.93	10.4	PQL	mg/Kg	
	Zirconium	J	4.40	5.19	PQL	mg/Kg	
SL-128-SA5B-SS-0.0-0.5	BORON	J	2.87	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	78.0	102	PQL	mg/Kg	
	TIN	J	3.05	10.2	PQL	mg/Kg	
	Zirconium	J	1.38	5.10	PQL	mg/Kg	
SL-129-SA5B-SS-0.0-0.5	BORON	J	2.49	5.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.5	102	PQL	mg/Kg	
	TIN	J	2.55	10.2	PQL	mg/Kg	
	Zirconium	J	1.62	5.08	PQL	mg/Kg	
SL-140-SA5C-SB-3.0-4.0	BORON	J	2.76	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.61	10.7	PQL	mg/Kg	
	Zirconium	J	2.03	5.35	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	SELENIUM	J	0.184	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0842	0.106	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	SELENIUM	J	0.313	0.444	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0467	0.111	PQL	mg/Kg	
SED-024-SIV-SD-0.0-0.5	ANTIMONY	J	0.194	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.206	0.445	PQL	mg/Kg	
	SILVER	J	0.0600	0.111	PQL	mg/Kg	
SED-026-SIV-SD-0.0-0.5	ANTIMONY	J	0.128	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.177	0.459	PQL	mg/Kg	
SED-027-SIV-SD-0.0-0.5	ANTIMONY	J	0.164	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.225	0.454	PQL	mg/Kg	
SL-002-SA5C-SB-4.0-5.0	ANTIMONY	J	0.160	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0891	0.106	PQL	mg/Kg	
	SELENIUM	J	0.101	0.422	PQL	mg/Kg	
	SILVER	J	0.0148	0.106	PQL	mg/Kg	
SL-002-SA5C-SB-9.0-10.0	SELENIUM	J	0.186	0.471	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0442	0.118	PQL	mg/Kg	
SL-004-SA5C-SB-4.0-5.0	SELENIUM	J	0.0746	0.473	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0893	0.118	PQL	mg/Kg	
SL-004-SA5C-SB-9.0-10.0	SELENIUM	J	0.252	0.467	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0645	0.117	PQL	mg/Kg	
SL-060-SA5C-SB-10.0-11.0	SELENIUM	J	0.268	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0336	0.110	PQL	mg/Kg	
SL-125-SA5B-SS-0.0-0.5	SELENIUM	J	0.210	0.414	PQL	mg/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	SELENIUM	J	0.169	0.416	PQL	mg/Kg	J (all detects)
SL-128-SA5B-SS-0.0-0.5	SELENIUM	J	0.225	0.420	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0991	0.105	PQL	mg/Kg	
SL-129-SA5B-SS-0.0-0.5	SELENIUM	J	0.242	0.418	PQL	mg/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	ANTIMONY	J	0.169	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0533	0.110	PQL	mg/Kg	
	SELENIUM	J	0.0532	0.441	PQL	mg/Kg	
	SILVER	J	0.0480	0.110	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.0	PQL	mg/Kg	J (all detects)
SL-129-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	MERCURY	J	0.0220	0.102	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	MERCURY	J	0.0082	0.109	PQL	mg/Kg	J (all detects)
SED-024-SIV-SD-0.0-0.5	MERCURY	J	0.0121	0.114	PQL	mg/Kg	J (all detects)
SED-027-SIV-SD-0.0-0.5	MERCURY	J	0.0513	0.111	PQL	mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	MERCURY	J	0.0046	0.119	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	MERCURY	J	0.0138	0.115	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-9.0-10.0	MERCURY	J	0.0068	0.120	PQL	mg/Kg	J (all detects)
SL-125-SA5B-SS-0.0-0.5	MERCURY	J	0.0113	0.103	PQL	mg/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	MERCURY	J	0.0113	0.104	PQL	mg/Kg	J (all detects)
SL-128-SA5B-SS-0.0-0.5	MERCURY	J	0.0117	0.105	PQL	mg/Kg	J (all detects)
SL-129-SA5B-SS-0.0-0.5	MERCURY	J	0.0101	0.103	PQL	mg/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	MERCURY	J	0.0063	0.111	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	METHANOL	J	130	530	PQL	ug/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	METHANOL	J	410	600	PQL	ug/Kg	J (all detects)
SL-060-SA5C-SB-10.0-11.0	METHANOL	J	160	570	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.59 0.74	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-002-SA5C-SB-9.0-10.0	EFH (C21-C30)	J	0.96	1.4	PQL	mg/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.4	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	4,4'-DDE 4,4'-DDT ENDRIN ALDEHYDE	J J J	0.96 1.6 1.8	3.7 3.7 3.7	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SED-023-SIV-SD-0.0-0.5	DELTA-BHC HEPTACHLOR	J J	0.26 0.56	0.93 0.93	PQL PQL	ug/Kg ug/Kg	J (all detects)
SED-024-SIV-SD-0.0-0.5	DELTA-BHC HEPTACHLOR	J J	0.93 0.39	0.95 0.95	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-026-SIV-SD-0.0-0.5	ALPHA-BHC	J	0.066	0.19	PQL	ug/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	BETA-BHC	J	0.12	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.042	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.065	0.17	PQL	ug/Kg	
SL-129-SA5B-SS-0.0-0.5	4,4'-DDD	J	0.99	3.6	PQL	ug/Kg	J (all detects)
	BETA-BHC	J	0.065	0.18	PQL	ug/Kg	
	DELTA-BHC	J	0.093	0.18	PQL	ug/Kg	
	DIELDRIN	J	1.0	3.6	PQL	ug/Kg	
	ENDOSULFAN SULFATE	J	1.8	3.6	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.86	3.6	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.058	0.18	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.4	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.70	1.9	PQL	ug/Kg	
SED-024-SIV-SD-0.0-0.5	AROCLOR 1260	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.1	3.8	PQL	ug/Kg	
SED-027-SIV-SD-0.0-0.5	Aroclor 5460	J	3.6	7.6	PQL	ug/Kg	J (all detects)
SL-004-SA5C-SB-9.0-10.0	AROCLOR 1254	J	0.66	2.0	PQL	ug/Kg	J (all detects)
SL-060-SA5C-SB-10.0-11.0	AROCLOR 1254	J	1.2	2.0	PQL	ug/Kg	J (all detects)
SL-126-SA5B-SS-0.0-0.5	AROCLOR 1260	J	0.50	1.8	PQL	ug/Kg	J (all detects)
SL-129-SA5B-SS-0.0-0.5	Aroclor 5460	J	18	35	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-023-SIV-SD-0.0-0.5	DICAMBA	J	0.69	1.3	PQL	ug/Kg	J (all detects)
SED-024-SIV-SD-0.0-0.5	DICAMBA	J	1.0	1.4	PQL	ug/Kg	J (all detects)
SED-026-SIV-SD-0.0-0.5	DICAMBA	J	0.57	1.4	PQL	ug/Kg	J (all detects)
SED-027-SIV-SD-0.0-0.5	DICAMBA	J	1.3	1.4	PQL	ug/Kg	J (all detects)
SL-128-SA5B-SS-0.0-0.5	DICAMBA	J	0.42	1.3	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.2	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.2	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	5.6	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.88	4.1	PQL	ug/Kg	
	TOLUENE	J	0.09	4.1	PQL	ug/Kg	
SL-004-SA5C-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.97	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.4	PQL	ug/Kg	
SL-004-SA5C-SB-9.0-10.0	2-BUTANONE (MEK)	J	3.4	7.7	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.1	3.9	PQL	ug/Kg	
	TOLUENE	J	0.08	3.9	PQL	ug/Kg	
SL-060-SA5C-SB-10.0-11.0	METHYLENE CHLORIDE	J	3.3	4.0	PQL	ug/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	METHYLENE CHLORIDE	J	2.8	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.2	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-026-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	47	390	PQL	ug/Kg	J (all detects)
SL-140-SA5C-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	50	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.72	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.68	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
SED-023-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.6	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.9	PQL	ug/Kg	
	PYRENE	J	1.1	1.9	PQL	ug/Kg	
SED-024-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
	PYRENE	J	0.95	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE039 **Laboratory: LL**

EDD Filename: DE039_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SED-026-SIV-SD-0.0-0.5	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	9.1	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.9	PQL	ug/Kg	
SED-027-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	
	CHRYSENE	J	0.85	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.9	PQL	ug/Kg	
SL-002-SA5C-SB-9.0-10.0	CHRYSENE	J	0.41	2.0	PQL	ug/Kg	J (all detects)
SL-004-SA5C-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.50	2.0	PQL	ug/Kg	
SL-004-SA5C-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	22	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.53	2.0	PQL	ug/Kg	
SL-126-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.82	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.73	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.6	19	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.75	1.7	PQL	ug/Kg	
	PYRENE	J	1.5	1.7	PQL	ug/Kg	
SL-128-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.86	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.41	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	Butylbenzylphthalate	J	10	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.0	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.98	1.8	PQL	ug/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 11, 2011
Matrix:	Soil/Water
Parameters:	Volatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SL-060-SA5C-SB-10.0-11.0
SL-004-SA5C-SB-4.0-5.0MS

Introduction

This data review covers 7 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
12/16/10	2-Hexanone	30	All soil samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/17/10	Chlorotrifluoroethene	30	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
11/23/10	2-Hexanone	28	All soil samples in SDG DE039	J (all detects) UJ (all non-detects)	A
11/10/10	Acetone	40	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
VBLKB18	12/16/10	Methylene chloride Chloroform	1.0 ug/Kg 0.4 ug/Kg	All soil samples in SDG DE039

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
SL-002-SA5C-SB-4.0-5.0	Methylene chloride	1.2 ug/Kg	4.2U ug/Kg
SL-002-SA5C-SB-9.0-10.0	Methylene chloride	0.88 ug/Kg	4.1U ug/Kg
SL-004-SA5C-SB-9.0-10.0	Methylene chloride	1.1 ug/Kg	3.9U ug/Kg
SL-004-SA5C-SB-4.0-5.0	Methylene chloride	0.97 ug/Kg	4.4U ug/Kg
SL-140-SA5C-SB-3.0-4.0	Methylene chloride	2.8 ug/Kg	4.2U ug/Kg
SL-060-SA5C-SB-10.0-11.0	Methylene chloride	3.3 ug/Kg	4.0U ug/Kg

Sample EB02-SA5B-121410 was identified as an equipment blank. No volatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	EB02-SA5B-121410	Chlorotrifluoroethene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	2-Hexanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	EB02-SA5B-121410	Acetone	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE039

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE039	SL-002-SA5C-SB-4.0-5.0	Methylene chloride	4.2U ug/Kg	A	B
DE039	SL-002-SA5C-SB-9.0-10.0	Methylene chloride	4.1U ug/Kg	A	B
DE039	SL-004-SA5C-SB-9.0-10.0	Methylene chloride	3.9U ug/Kg	A	B
DE039	SL-004-SA5C-SB-4.0-5.0	Methylene chloride	4.4U ug/Kg	A	B
DE039	SL-140-SA5C-SB-3.0-4.0	Methylene chloride	4.2U ug/Kg	A	B
DE039	SL-060-SA5C-SB-10.0-11.0	Methylene chloride	4.0U ug/Kg	A	B

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J1a **VALIDATION COMPLETENESS WORKSHEET** Date: 5/11/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EF
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D RSD ≤ 30, r^2
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ RT
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	MS only
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	EB = 3

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

Validated Samples: soil + water

1	SL-002-SA5C-SB-4.0-5.0 S	11	VBLKB18	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12	VBLKY44	22		32	
3	EB02-SA5B-121410 W	13		23		33	
4	SL-004-SA5C-SB-9.0-10.0 S	14		24		34	
5	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	15		25		35	
6	SL-140-SA5C-SB-3.0-4.0	16		26		36	
7	SL-060-SA5C-SB-10.0-11.0	17		27		37	
8	#5 MS	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25337J1a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337J1a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Internal Standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XI. Target Compound Identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XII. Compound Quantitation				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Tentatively Identified Compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
XIV. System Performance				
System performance was found to be acceptable.		✓		
XV. Overall Assessment				
Overall assessment of data was found to be acceptable.	✓			
XVI. Field Duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XVII. Field Blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethene	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropane**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 25337N/a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?

Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	11/23/10	ICV	Z	28		all soils	J/UJ/A (C)
	11/10/10	ICV	F	40		all water	↓
	12/16/10 15:47	CCV	Z	30		all soils	↓
	12/17/10 20:52	CCV	*	30		all water	↓
		* chlorotrifluoroethene					

LDC #: 25337J/a

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 12/16/10
Conc. units: ug/kg
Associated Samples: All soils (B)

Compound	Blank ID		Sample Identification								
	VBLKB18		1	2	4	5	6	7			
E	1.0		1.2/4.2U	0.88/4.1U	1.1/3.9U	0.97/4.4U	2.8/4.2U	3.3/4.0U			
K	0.4		-	-	-	-	-	-			
CROI											

Blank analysis date:
Conc. units:
Associated Samples:

Compound	Blank ID	Sample Identification								
CROI										

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 25337J1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_s)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (5V std)	Recalculated RRF (5V std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL soil	12/23/10	C (1st internal standard)	0.3865	0.3865	0.3806	0.3806	4	4
			EE (2nd internal standard)	1.5410	1.5410	1.6059	1.6059	7	7
			JJJ (3rd internal standard)	1.3628	1.3628	1.4115	1.4115	9	9
			(4th internal standard)						
2	ICAL water	11/10/10	C (1st internal standard)	0.4983	0.4983	0.5095	0.5095	2	2
			EE (2nd internal standard)	1.926	1.926	1.940	1.940	7	7
			JJJ (3rd internal standard)	1.5950	1.5950	1.5784	1.5784	7	7
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer: C

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 15:47	12/16/10	C (1st internal standard)	0.3806	0.3555	0.3555	7	7
			EE (2nd internal standard)	1.6059	1.5158	1.5158	6	6
			JJJ (3rd internal standard)	1.4115	1.1610	1.1610	18	18
			(4th internal standard)					
2	CCV 20:31	12/17/10	C (1st internal standard)	0.5095	0.4791	0.4791	6	4
			EE (2nd internal standard)	1.9401	1.9752	1.9752	2	2
			JJJ (3rd internal standard)	1.5784	1.5940	1.5940	1	1
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J/a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: # 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	50.0	51.735	103	103	0
1,2-Dichloroethane-d4	↓	49.543	99	99	↓
Toluene-d8	↓	48.740	97	97	↓
Bromofluorobenzene	↓	46.168	92	92	↓

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 25337J/a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD sample: 8

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	19.94	NA	ND	22.77	NA	114	114				
Trichloroethene	↓	↓	↓	20.53	↓	103	103				
Benzene	↓	↓	↓	21.55	↓	108	108				
Toluene	↓	↓	↓	20.76	↓	104	104				
Chlorobenzene	↓	↓	↓	19.77	↓	99	99	NA	↓	↓	↓

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337/a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: VOA/D 8011L

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
1,1-Dichloroethene	20.0	20.0	20.29	20.10	101	101	100	100	1	1
Trichloroethene	↓	↓	20.12	20.07	101	101	100	100	0	0
Benzene			20.94	20.90	105	105	105	105	0	0
Toluene			20.14	20.07	101	101	100	100	0	0
Chlorobenzene			19.51	19.51	98	98	98	98	0	0

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, cc:

Conc. = $\frac{(1329)(50)(5)}{(723017)(0.856)(5.03)(0.938)}$

=

0.11 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 11, 2011

Matrix: Soil/Water

Parameters: 1,4-Dioxane

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
TB-121410
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 6 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B using Selected Ion Monitoring (SIM) for 1,4-Dioxane.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0%.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 25.0% .

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% .

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No 1,4-dioxane was found in the method blanks.

Sample TB-121410 was identified as a trip blank. No 1,4-dioxane was found in this blank.

Sample EB02-SA5B-121410 was identified as an equipment blank. No 1,4-dioxane was found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 TB-121410 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J1b **VALIDATION COMPLETENESS WORKSHEET** Date: 5/11/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer:

METHOD: GC/MS 1,4-Dioxane (EPA SW 846 Method 8260B-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	~~SW~~ A	
VII.	Matrix spike/Matrix spike duplicates	N	client specific
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	TB = 3 EB = 4

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

Validated Samples: soil + water

1	SL-002-SA5C-SB-4.0-5.0 S	11	VBLKE72	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12	VBLKE71	22		32	
3	TB-121410 W	13		23		33	
4	EB02-SA5B-121410	14		24		34	
5	SL-004-SA5C-SB-9.0-10.0 S	15		25		35	
6	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	16		26		36	
7	SL-140-SA5C-SB-3.0-4.0	17		27		37	
8	SL-060-SA5C-SB-10.0-11.0	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25337J1b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Surrogate spikes				
Were all surrogate %R within QC limits?	✓	NA		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?		✓		
Matrix spikes				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
LCS				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337J1b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X Regional quality assurance and quality control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
X Target compounds				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	NA		✓	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	NA		✓	
Were chromatogram peaks verified and accounted for?	✓			
X System performance				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?			✓	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
X Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
X Overall assessment of data				
System performance was found to be acceptable.	✓			
X Field duplicates				
Overall assessment of data was found to be acceptable.	✓			
X Field blanks				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
X Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	U. 1,1,2-Trichloroethane	OO. 2,2-Dichloropropane	III. n-Butylbenzene	CCCC.1-Chlorohexane
B. Bromomethane	V. Benzene	PP. Bromochloromethane	JJJ. 1,2-Dichlorobenzene	DDDD. Isopropyl alcohol
C. Vinyl choride**	W. trans-1,3-Dichloropropene	QQ. 1,1-Dichloropropene	KKK. 1,2,4-Trichlorobenzene	EEEE. Acetonitrile
D. Chloroethane	X. Bromoform*	RR. Dibromomethane	LLL. Hexachlorobutadiene	FFFF. Acrolein
E. Methylene chloride	Y. 4-Methyl-2-pentanone	SS. 1,3-Dichloropropane	MMM. Naphthalene	GGGG. Acrylonitrile
F. Acetone	Z. 2-Hexanone	TT. 1,2-Dibromoethane	NNN. 1,2,3-Trichlorobenzene	HHHH. 1,4-Dioxane
G. Carbon disulfide	AA. Tetrachloroethene	UU. 1,1,1,2-Tetrachloroethane	OOO. 1,3,5-Trichlorobenzene	IIII. Isobutyl alcohol
H. 1,1-Dichloroethene**	BB. 1,1,2,2-Tetrachloroethane*	VV. Isopropylbenzene	PPP. trans-1,2-Dichloroethene	JJJJ. Methacrylonitrile
I. 1,1-Dichloroethane*	CC. Toluene**	WW. Bromobenzene	QQQ. cis-1,2-Dichloroethene	KKKK. Propionitrile
J. 1,2-Dichloroethene, total	DD. Chlorobenzene*	XX. 1,2,3-Trichloropropane	RRR. m,p-Xylenes	LLLL. Ethyl ether
K. Chloroform**	EE. Ethylbenzene**	YY. n-Propylbenzene	SSS. o-Xylene	MMMM. Benzyl chloride
L. 1,2-Dichloroethane	FF. Styrene	ZZ. 2-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	NNNN.
M. 2-Butanone	GG. Xylenes, total	AAA. 1,3,5-Trimethylbenzene	UUU. 1,2-Dichlorotetrafluoroethane	OOOO.
N. 1,1,1-Trichloroethane	HH. Vinyl acetate	BBB. 4-Chlorotoluene	VVV. 4-Ethyltoluene	PPPP.
O. Carbon tetrachloride	II. 2-Chloroethylvinyl ether	CCC. tert-Butylbenzene	WWW. Ethanol	QQQQ.
P. Bromodichloromethane	JJ. Dichlorodifluoromethane	DDD. 1,2,4-Trimethylbenzene	XXX. Di-isopropyl ether	RRRR.
Q. 1,2-Dichloropropene**	KK. Trichlorofluoromethane	EEE. sec-Butylbenzene	YYY. tert-Butanol	SSSS.
R. cis-1,3-Dichloropropene	LL. Methyl-tert-butyl ether	FFF. 1,3-Dichlorobenzene	ZZZ. tert-Butyl alcohol	TTTT.
S. Trichloroethene	MM. 1,2-Dibromo-3-chloropropane	GGG. p-Isopropyltoluene	AAAA. Ethyl tert-butyl ether	UUUU.
T. Dibromochloromethane	NN. Methyl ethyl ketone	HHH. 1,4-Dichlorobenzene	BBBB. tert-Amyl methyl ether	VVVV.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

LDC #: 25337J16

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: 0

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (5 std)	Recalculated RRF (5 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL SOIL	11/07/10	1,4-Dioxane (1st internal standard)	1.3539	1.3539	1.3396	1.3396	2	2
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
2	ICAL water	11/01/10	1,4-Dioxane (1st internal standard)	(10) 1.3359	(10) 1.3359	1.3219	1.3219	1	1
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J1b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer: CA

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 10:02	12/17/10	1,4 -Dioxane (1st internal standard)	1.3396	1.3988	1.3988	10	10
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
2	CCV 16:30	12/16/10	↓ (1st internal standard)	1.3219	1.3014	1.3014	10	10
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8	10	9.844	98	98	0
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 25337J16

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: lcs10 soil

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
~~1,1-Dichloroethene~~ 1,4-Dioxane	125.0	125.0	127.96	126.57	102	102	101	101	1	1
Trichloroethene										
Benzene										
Toluene										
~~Chlorobenzene~~										

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J1b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. _____, _____:

Conc. = $\frac{(\quad)(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)}$

= MP

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 12, 2011
Matrix:	Soil/Sediment/Water
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 12 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semilvolatile contaminants were found in the method blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No semivolatile contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (SL-002-SA5C-SB-4.0-5.0)	Benzidine	27 (35-141)	-	37 (≤30)	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D water (All water samples in SDG DE039)	2-Chlorophenol	-	109 (77-108)	-	J (all detects)	P
	2-Methylphenol	-	102 (64-101)	-	J (all detects)	
	2,4-Dimethylphenol	-	117 (72-110)	-	J (all detects)	
	2,4-Dichlorophenol	-	117 (80-109)	-	J (all detects)	
	2,4,5-Trichlorophenol	-	108 (79-107)	-	J (all detects)	
	Dibenzofuran	-	111 (83-108)	-	J (all detects)	
	1,2-Diphenylhydrazine	-	118 (78-116)		J (all detects)	
LCS/D water (All water samples in SDG DE039)	Benzoic acid	-	-	44 (≤30)	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0	Benzidine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE039	EB02-SA5B-121410	2-Chlorophenol 2-Methylphenol 2,4-Dimethylphenol 2,4-Dichlorophenol 2,4,5-Trichlorophenol Dibenzofuran 1,2-Diphenylhydrazine	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE039	EB02-SA5B-121410	Benzoic acid	J (all detects) UJ (all non-detects)	P	Laboratory control samples (RPD) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J2a **VALIDATION COMPLETENESS WORKSHEET** Date: 5/11/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: D
2nd Reviewer: A

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D RSD ≤ 30, r²
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	ND	EB = 3

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

Validated Samples:
Soil, sediment, water

1	SL-002-SA5C-SB-4.0-5.0 S	11	SL-126-SA5B-SS-0.0-0.5 S	21	SBLKF354	31	
2	SL-002-SA5C-SB-9.0-10.0	12	SL-129-SA5B-SS-0.0-0.5	22	SBLKWB350	32	
3	EB02-SA5B-121410 W	13	SL-128-SA5B-SS-0.0-0.5	23		33	
4	SL-004-SA5C-SB-9.0-10.0 S	14	SED-027-SIV-SD-0.0-0.5 Sed	24		34	
5	SL-004-SA5C-SB-4.0-5.0	15	SED-026-SIV-SD-0.0-0.5	25		35	
6	SL-140-SA5C-SB-3.0-4.0	16	SL-060-SA5C-SB-10.0-11.0 S	26		36	
7	SED-024-SIV-SD-0.0-0.5 Sed	17	#1 MS	27		37	
8	SED-023-SIV-SD-0.0-0.5	18	#1 MSD	28		38	
9	SED-022-SIV-SD-0.0-0.5	19		29		39	
10	SL-125-SA5B-SS-0.0-0.5 S	20		30		40	

LDC #: 25337J2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
GC/MS				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Continuing Calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Surrogates				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Matrix Spike/Matrix Spike Duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
Laboratory Control Samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337J2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	✓		✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?	✓		✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	✓		✓	
[illegible]				
System performance was found to be acceptable.		✓		
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU. 1,2-Piphenylhydrazine
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25337J2a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 7
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		17+18	SSS	27 (35-141)	( )	37 (30)	1	J/UJ/A (Q)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25337J2c

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A — Was a LCS required? (Y circled)

Y N N/A — Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits? (N circled)

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS/D 50x water	C	( )	109 (77-108)	( )	All water	J/Pdet (L)
			G	( )	102 (64-101)	( )	↓	↓
			~~Θ~~	( )	117 (72-110)	( )		
		PPP	~~SSS~~	( )	( )	44 (30)		J/UJ/P
			Q	( )	117 (80-109)	( )		J/Pdet
			Z	( )	108 (79-107)	( )		
			JJ	( )	111 (83-108)	( )		
			UUU	( )	118 (78-116)	( )	↓	↓

LDC #: 25357J2S

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 6 of 7
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL WATER	9/24/10	Phenol (1st internal standard)	1.845	1.845	1.816	1.816	6	6
			2-nitrophenol Naphthalene (2nd internal standard)	0.217	0.217	0.214	0.214	3	3
			2-nitroaniline Fluorene (3rd internal standard)	0.422	0.422	0.408	0.406	2	2
			Pentachlorophenol (4th internal standard)	0.194	0.194	0.186	0.186	5	5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0644	0.644	0.638	0.638	1	1
			Di-n-octylphthalate Benzo(a)pyrene (6th internal standard)	1.177	1.177	1.141	1.141	3	3
2	ICAL SOIL	1/12/11	Phenol (1st internal standard)	2.133	2.133	2.123	2.123	5	5
			2-nitrophenol Naphthalene (2nd internal standard)	0.198	0.198	0.190	0.190	8	8
			2-nitroaniline Fluorene (3rd internal standard)	0.375	0.375	0.343	0.343	14	14
			Pentachlorophenol (4th internal standard)	0.163	0.163	0.149	0.149	14	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.749	0.749	0.672	0.672	14	14
			Di-n-octylphthalate Benzo(a)pyrene (6th internal standard)	1.591	1.591	1.323	1.323	21	21
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 8:35	1/14/11	Phenol (1st internal standard)	2.123	2.109	2.109	1	1
			2-nitrophenol Naphthalene (2nd internal standard)	0.190	0.197	0.197	4	4
			2-nitroaniline Fluorene (3rd internal standard)	0.343	0.369	0.369	8	8
			Pentachlorophenol (4th internal standard)	0.149	0.142	0.142	5	5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.672	0.717	0.717	7	7
			Di-n-octylphthalate Benzo(a)pyrene (6th internal standard)	1.323	1.583	1.583	5	5
2	CCV 19:53	1/12/11	Phenol (1st internal standard)		2.236	2.236	5	5
			2-nitrophenol Naphthalene (2nd internal standard)		0.202	0.202	6	6
			2-nitroaniline Fluorene (3rd internal standard)		0.389	0.389	13	13
			Pentachlorophenol (4th internal standard)		0.163	0.163	9	9
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.759	0.759	13	13
			Di-n-octylphthalate Benzo(a)pyrene (6th internal standard)	↓	1.642	1.642		
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J09

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 21:53	12/30/10	Phenol (1st internal standard)	1.816	1.700	1.70	6	6
			~~Naphthalene~~ 2-nitrophenol (2nd internal standard)	0.214	0.210	0.210	2	2
			~~Fluorene~~ 2-nitroaniline (3rd internal standard)	0.408	0.400	0.400	2	2
			Pentachlorophenol (4th internal standard)	0.186	0.161	0.161	14	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.638	0.657	0.657	3	3
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.141	1.222	1.222	7	7
2	CCV 20:27	12/31/10	Phenol (1st internal standard)		1.851	1.851	2	2
			~~Naphthalene~~ 2-nitrophenol (2nd internal standard)		0.217	0.217	1	1
			~~Fluorene~~ 2-nitroaniline (3rd internal standard)		0.416	0.416	2	2
			Pentachlorophenol (4th internal standard)		0.159	0.159	14	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.650	0.650	2	2
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	↓	1.191	1.191	4	4
3	CCV		Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J29

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 6 of 7
Reviewer: FT
2nd reviewer: (n)

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	82.292	82	82	0
2-Fluorobiphenyl	↓	92.405	92	92	
Terphenyl-d14	↓	85.312	85	85	
Phenol-d5	200	168.784	84	84	
2-Fluorophenol	↓	170.589	85	85	
2,4,6-Tribromophenol	↓	184.611	92	92	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25337J29

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = | MSC - MSC | * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 17 + 18

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	1773.05	1773.05	ND	1534.70	1577.35	86	86	89	89	3	3
N-Nitroso-di-n-propylamine				1389.21	1448.60	78	78	82	82	5	5
4-Chloro-3-methylphenol				1576.84	1557.51	89	89	88	88	1	1
Acenaphthene				1718.09	1738.80	97	97	98	98	1	1
Pentachlorophenol				1345.94	1469.03	76	76	83	83	9	9
Pyrene				1727.52	1737.33	97	97	98	98	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J29

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1666.67	NA	1495.23	NA	90	90				
N-Nitroso-di-n-propylamine			1414.30		85	85				
4-Chloro-3-methylphenol			1659.14		100	100				
Acenaphthene			1679.06		101	101				
Pentachlorophenol			1512.06		91	91				
Pyrene			1734.55		104	104	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2C

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #6 . EEE

Conc. = $\frac{(1478)(40)(1000)(\quad)(\quad)}{(654595)(0.672)(30)(0.899)(\quad)}$

= 0.672

50 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 13, 2011

Matrix: Soil/Sediment/Water

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 12 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semilvolatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWH350	12/17/10	Butylbenzylphthalate	0.06 ug/L	All water samples in SDG DE039

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
EB02-SA5B-121410	Butylbenzylphthalate	0.060 ug/L	1.0U ug/L

Sample EB02-SA5B-121410 was identified as an equipment blank. No semivolatile contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB02-SA5B-121410	12/14/10	Butylbenzylphthalate Di-n-butylphthalate Diethylphthalate Bis(2-ethylhexyl)phthalate Naphthalene Di-n-octylphthalate	0.060 ug/L 0.15 ug/L 0.12 ug/L 0.16 ug/L 0.027 ug/L 0.083 ug/L	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (SL-002-SA5C-SB-4.0-5.0)	Diethylphthalate	70 (87-131)	72 (87-131)	-	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
350WHLCS/D (All water samples in SDG DE039)	2-Methylnaphthalene	71 (75-115)	76 (75-115)	-	J (all detects) UJ (all non-detects)	P
	1-Methylnaphthalene	-	69 (71-117)	-		
	Chrysene	75 (76-116)	-	-		
	N-Nitrosodimethylamine	59 (70-130)	58 (70-130)	-		
	Dimethylphthalate	67 (70-130)	71 (70-130)	-		
	Diethylphthalate	67 (70-130)	65 (70-130)	-		
	Fluoranthene	-	67 (75-116)	-		
	Benzo(k)fluoranthene	-	71 (72-122)	-		
	Dibenzo(a,h)anthracene	-	69 (71-125)	-		
354LILCS (All soil and sediment samples in SDG DE039)	Diethylphthalate	63 (68-125)	-	-	J (all detects) UJ (all non-detects)	P
	Fluorene	69 (71-120)	-	-		
	Di-n-butylphthalate	81 (84-132)	-	-		
	Fluoranthene	76 (78-120)	-	-		
	Chrysene	77 (79-120)	-	-		
	Indeno(1,2,3-cd)pyrene	61 (62-141)	-	-		
	Dibenzo(a,h)anthracene	61 (62-142)	-	-		

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0	Diethylphthalate	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE039	EB02-SA5B-121410	2-Methylnaphthalene 1-Methylnaphthalene Chrysene N-Nitrosodimethylamine Dimethylphthalate Diethylphthalate Fluoranthene Benzo(k)fluoranthene Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-060-SA5C-SB-10.0-11.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Diethylphthalate Fluorene Di-n-butylphthalate Fluoranthene Chrysene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE039

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE039	EB02-SA5B-121410	Butylbenzylphthalate	1.0U ug/L	A	B

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J2b **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11

SDG #: DE039 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: EF

SVOA 2nd Reviewer: AT

METHOD: GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ (EPA SW 846 Method 8270C-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤25
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	SW	EB = 3

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

Validated Samples: soils + sed + water

1	SL-002-SA5C-SB-4.0-5.0 S	11	SL-126-SA5B-SS-0.0-0.5 S	21	SBLKWH3509	31		
2	SL-002-SA5C-SB-9.0-10.0 S	12	SL-129-SA5B-SS-0.0-0.5 "	22	SBLKLI354	32		
3	EB02-SA5B-121410 W	13	SL-128-SA5B-SS-0.0-0.5 "	23		33		
4	SL-004-SA5C-SB-9.0-10.0 S	14	SED-027-SIV-SD-0.0-0.5 Sed	24		34		
5	SL-004-SA5C-SB-4.0-5.0 S	15	SED-026-SIV-SD-0.0-0.5 "	25		35		
6	SL-140-SA5C-SB-3.0-4.0 S	16	SL-060-SA5C-SB-10.0-11.0 S	26		36		
7	SED-024-SIV-SD-0.0-0.5 Sed	17	#1 MS	27		37		
8	SED-023-SIV-SD-0.0-0.5 "	18	#1 MSD	28		38		
9	SED-022-SIV-SD-0.0-0.5 "	19		29		39		
10	SL-125-SA5B-SS-0.0-0.5 S	20		30		40		

LDC #: 25337J2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
[redacted]				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
[redacted]				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
[redacted]				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
[redacted]				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
[redacted]				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
[redacted]				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
[redacted]				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
[redacted]				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337J2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within + 30 seconds from the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25337J2b

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT

2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank analyzed for each matrix?

Y N N/A Was a method blank associated with every sample?

Y N N/A Was the blank contaminated? If yes, please see qualification below.

Blank extraction date: 12/17/10 **Blank analysis date:** ug/L

Conc. units: ug/L Associated Samples: All water (B)

Compound	Blank ID	Sample Identification								
	SBLKWH350									
AAA	0.06		0.066/1.04							

Cont'd

Compound	Blank ID	Sample Identification								

LDC #: 25337J2b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer: CK

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?
Blank units: ug/L **Associated sample units:** ug/kg
Sampling date: 12/14/10
Field blank type: (circle one) Field Blank / Rinsate / Other: EB

10-13
All soils + Sediments (ND+75%)

Compound	Blank ID	Sample Identification								
	3									
~~Diethylphthalate~~ AAA	0.060									
Di-n-butylphthalate XX	0.15									
Bis(2-ethylhexyl)phthalate LL	0.12									
EEE	0.16									
S	0.027									
FFF	0.083									
—	— — —									
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

LDC #: 25337J2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		17+18	LL	70 (87-131)	72 (87-131)	( )	1	J/UJ/A (Q)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25337J26

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a LCS required?

Y N N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		350WHLCSID	W	71 (75-115)	76 (75-115)	( )	all water	J / UJ / P (L)
			TTT	( )	69 (71-117)	( )		
			DDD	75 (76-116)	( )	( )		
			OOO	59 (70-130)	58 (70-130)	( )		
			CC	67 (70-130)	71 (70-130)	( )		
			LL	67 (↓)	65 (↓)	( )		
			YY	( )	67 (75-116)	( )		
			HHH	( )	71 (72-122)	( )		
			KKK	( )	69 (71-125)	( )	↓	↓
				( )	( )	( )		
				( )	( )	( )		
		354LILCS	LL	63 (68-135)	( )	( )	all soil samples	
			NN	69 (71-120)	( )	( )		
			XX	81 (84-137)	( )	( )		
			YY	76 (78-120)	( )	( )		
			DDD	77 (79-120)	( )	( )		
			JJJ	61 (62-141)	( )	( )		
			KKK	61 (62-142)	( )	( )	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25337J26

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (1 std)	Recalculated RRF (1 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/4/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	1.134	1.134	1.149	1.149	7	7
			Fluorene (3rd internal standard)	1.329	1.329	1.363	1.363	6	6
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.218	1.218	1.212	1.212	7	7
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.238	1.238	1.287	1.287	6	6
			Benzo(a)pyrene (6th internal standard)	1.254	1.254	1.268	1.268	8	8
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337126

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 15:4X	1/4/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.149	1.110	1.110	3	3
			Fluorene (3rd internal standard)	1.363	1.330	1.330	2	2
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.212	1.164	1.164	4	4
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.287	1.216	1.216	6	6
			Benzo(a)pyrene (6th internal standard)	1.168	1.235	1.235	3	3
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J26

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: JD

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	0.693	69	69	0
2-Fluorobiphenyl	↓	0.647	64	64	↓
Terphenyl-d14	↓	0.754	75	75	↓
~~Phenol-d5~~					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
~~1,2-Dichlorobenzene-d4~~					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25337J26

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: ✓

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = | MSC - MSC | * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 17 + 18

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	35.46	35.46	ND	26.68	27.46	75	75	77	77	3	3
Pentachlorophenol											
Pyrene	35.46	35.46	ND	27.41	28.50	77	77	80	80	4	4

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337V2b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS/D water

Compound	Spike Added (ug/L)		Spike Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene	1.0	1.0	0.75	0.78	75	75	78	78	4	4
Pentachlorophenol										
Pyrene	↓	↓	0.72	0.77	72	72	72	72	0	0

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J26

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #2, Chrysene

Conc. = $\frac{(700)(1.0)(1000)(\quad)(\quad)}{(53446)(1.287)(30)(0.833)(\quad)}$ =

0.41 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 10, 2011

Matrix: Soil

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1625C for N-Nitrosodimethylamine.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% .

The percent difference (%D) of the second source calibration standard were less than or equal to 30.0% for all compounds.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was within validation criteria.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J2c

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 5/10/11

SDG #: DE039

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC/MS N-Nitrosodimethylamine (EPA Method 1625C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30
IV.	Continuing calibration/ICV	A	ICV ≤ 30 CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	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-002-SA5C-SB-4.0-5.0	11	SBLKLB3611	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6	#1 MS	16		26		36	
7	#1 MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25337J2C

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

1625C

Method: ~~Semivolatiles (EPA SW-846 Method 8270C)~~

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Were all percent differences (%D) ≤ ~~25%~~ 20 and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337J2C

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
[illegible]				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
[illegible]				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
[illegible]				
System performance was found to be acceptable.	✓			
[illegible]				
Overall assessment of data was found to be acceptable.	✓			
[illegible]				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
[illegible]				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337J2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

1685C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (25 std)	Recalculated RRF (25 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/5/11	NDMA ~~Phenol~~ (1st internal standard)	1.044	1.044	1.125	1.125	7	7
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			~~Benzo(a)pyrene (6th internal standard)~~						
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			~~Benzo(a)pyrene (6th internal standard)~~						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

1625C

METHOD: GC/MS ~~BNA (EPA SW-846 Method 8270C)~~

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 16:45	1/5/11	~~Phenol~~ NDMA (1st internal standard)	1.12504	1.08931	1.08931	3.17611	3.17611
			~~Naphthalene (2nd internal standard)~~					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2	CCV 19:00	1/5/11	~~Phenol~~ NDMA (1st internal standard)	↓	1.05338	1.05338	6.36946	6.36946
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
3	CCV 22:09	1/5/11	~~Phenol~~ NPMA (1st internal standard)	↓	1.04698	1.04698	6.93799	6.93799
			~~Naphthalene (2nd internal standard)~~					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2C
1625C

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: ~~GC/MS Semivolatiles (EPA SW 846 Method 8270)~~

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
~~Nitrobenzene-d5~~ NDMA-d6	25.0	25.242	101	101	0
2-Fluorobiphenyl					
Terphenyl-d14					
~~Phenol-d5~~					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
~~1,2-Dichlorobenzene-d4~~					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25337J2C

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

1625C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD samples: 6 + 7

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
Pyrene											
NDMA	886.52	886.52	111.63	941.87	894.26	94	94	88	88	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J2-C

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

1625C

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ng/Kg)		Spike Concentration (ng/Kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
NDMA	833.33	ND	832.82	NA	10U	10U	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 337J2C
1625 C

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #1 , NDMA

Conc. = $\frac{(22192)(25)(1000)(\quad)(\quad)}{(6650)(1.125)(30)(0.938)(\quad)}$

=

111.87 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

EB02-SA5B-121410
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5

Introduction

This data review covers 4 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/24/10	2P6356.05RCCV	RTXCLP1	Endosulfan II	21.5	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/24/10	2P6356.05RCCV	RTXCLP2	4,4'-DDT	24.8	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/29/10	1P10363.61CCV	RTXCLP1	Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Methoxychlor Endosulfan sulfate Endrin ketone	28.6 26.4 27.1 30.2 46.3 28.7 40.0 24.6 36.3	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/29/10	1P10363.61CCV	RTXCLP2	Heptachlor epoxide Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone	20.5 26.7 25.6 31.6 33.2 47.4 26.7 26.1 41.4 26.5	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	P
12/29/10	1P10363.61CCV	RTXCLP2	4,4'-DDE	23.6	SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	P
12/29/10	1P10363.62CCV	RTXCLP1	Mirex	29.6	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A
12/29/10	1P10363.62CCV	RTXCLP2	Mirex	27.6	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	P

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0% with the following exceptions:

Date	Standard ID	Column	Compound	%BD	Associated Samples	Affected Compounds	Flag	A or P
12/29/10	1P10363.60 PEM	RTXCLP1	4,4'-DDT	16.2	SL-129-SA5B-SS-0.0-0.5	4,4'-DDT	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No chlorinated pesticide contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D water (All water samples in SDG DE039)	4,4'-DDE	-	137 (66-130)	-	J (all detects)	P
LCS/D soil (All soil and sediment samples in SDG DE039)	Methoxychlor	131 (59-125)	-	-	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-024-SIV-SD-0.0-0.5	delta-BHC Heptachlor	60.48 46.10	J (all detects) J (all detects)	A
SED-023-SIV-SD-0.0-0.5	delta-BHC	49.61	J (all detects)	A
SED-022-SIV-SD-0.0-0.5	gamma-BHC delta-BHC 4,4'-DDT Endrin aldehyde	47.81 74.31 89.72 92.84	J (all detects) J (all detects) J (all detects) J (all detects)	A
SL-126-SA5B-SS-0.0-0.5	delta-BHC	75.53	J (all detects)	A
SL-129-SA5B-SS-0.0-0.5	gamma-BHC delta-BHC Dieldrin Endrin aldehyde	41.39 64.77 70.67 65.22	J (all detects) J (all detects) J (all detects) J (all detects)	A
SED-026-SIV-SD-0.0-0.5	alpha-BHC	56.90	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Chlorinated Pesticides - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	EB02-SA5B-121410	Endosulfan II 4,4'-DDT	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Methoxychlor Endosulfan sulfate Endrin ketone Mirex	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Heptachlor epoxide Endosulfan I Dieldrin Endrin Endosulfan II 4,4'-DDT Endrin aldehyde Endosulfan sulfate Methoxychlor Endrin ketone Mirex	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE039	SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	4,4'-DDE	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE039	SL-129-SA5B-SS-0.0-0.5	4,4'-DDT	J (all detects) UJ (all non-detects)	A	Continuing calibration (PEM %D) (M)
DE039	EB02-SA5B-121410	4,4'-DDE	J (all detects)	P	Laboratory control samples (%R)(L)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Methoxychlor	J (all detects)	P	Laboratory control samples (%R)(L)
DE039	SED-024-SIV-SD-0.0-0.5	delta-BHC Heptachlor	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SED-023-SIV-SD-0.0-0.5 SL-126-SA5B-SS-0.0-0.5	delta-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SED-022-SIV-SD-0.0-0.5	gamma-BHC delta-BHC 4,4'-DDT Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-129-SA5B-SS-0.0-0.5	gamma-BHC delta-BHC Dieldrin Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SED-026-SIV-SD-0.0-0.5	alpha-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	EB02-SA5B-121410 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J3a

SDG #: DE039

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 5/11/12

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/ECD Instrument Performance Check	SW	pre CCV
III.	Initial calibration	A	% RSD ≤20, r^2
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	SW	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	FB = 1

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

Validated Samples: Sed, soil, water

1	EB02-SA5B-121410 W	11	PBLK16352	21		31	
2	SED-024-SIV-SD-0.0-0.5 Sed	12	PBLK29351	22		32	
3	SED-023-SIV-SD-0.0-0.5 ↓	13		23		33	
4	SED-022-SIV-SD-0.0-0.5 ↓	14		24		34	
5	SL-125-SA5B-SS-0.0-0.5 S	15		25		35	
6	SL-126-SA5B-SS-0.0-0.5 ↓	16		26		36	
7	SL-129-SA5B-SS-0.0-0.5 ↓	17		27		37	
8	SL-128-SA5B-SS-0.0-0.5 ↓	18		28		38	
9	SED-027-SIV-SD-0.0-0.5 Sed	19		29		39	
10	SED-026-SIV-SD-0.0-0.5 ↓	20		30		40	

Notes: _____

LDC #: 25337J3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: EV
2nd Reviewer:

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?	✓			
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	✓			
Did the initial calibration meet the curve fit acceptance criteria?	✓			
Were the RT windows properly established?	✓			
Were the required standard concentrations analyzed in the initial calibration?	✓			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ___%D or ___%R	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	✓			
Were endrin and 4,4'-DDT breakdowns ≤ 15%.0 for individual breakdown in the Evaluation mix standards?		✓		
Was a continuing calibration analyzed daily? 80-120 20	✓			
Were all percent differences (%D) ≤ ~~15%.0~~ 20 or percent recoveries ~~85-115%~~ 80-120?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Were extract cleanup blanks analyzed with every batch requiring clean-up?			✓	
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	NA	✓		
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	✓			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	

LDC #: 25337J3
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Reviewer: JM
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.			✓	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 25337N3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: ✓ GC __ HPLC

2nd Reviewer: A

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? __%D or __RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤15.0%? 20
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 15.0) 20	RT (limit)	Associated Samples	Qualifications
	12/21/10	2P6356.05RCCV	RTX CLP1	L	21.5	( )	all water	J/UJ/A (C
			RTX CLP2	O	24.8	( )	↓	↓
						( )		
						( )		
	12/29/10	IP10363.60PEM (Breakdown	RTX CLP1	O	14.2 (4)	15% ( )	PBLK 2935 1, 2, 3, 4, 5, 6	no qual ND
						( )		
						( )		
	12/29/10	IP10363.61-CCV	RTX CLP1	H	26.6	( )	7, 8, 9, 10	J/UJ/A (C)
				I	26.4	( )		
				K	27.1	( )		
				L	30.2	( )		
				O	46.3	( )		
				R	28.7	( )		
				P	40.0	( )		
				N	24.6	( )		
				Q	36.3	( )	↓	↓
			RTX CLP2	G	20.5	( )	7, 8, 9, 10	J/UJ/P (C)
				H	26.7	( )	↓	
		✓		J	23.6	( )	8, 9, 10	
				I	25.6	( )	7, 8, 9, 10	
				K	31.6	( )		
				L	33.2	( )		
				O	47.4	( )	↓	↓

LDC #: 25337J3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: ✓ GC __ HPLC

2nd Reviewer:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? __%D or __RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ~~≤15.0%~~ 20%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ ~~15.0~~ 20)	RT (limit)	Associated Samples	Qualifications
	12/29/10	IP10363.61	RTX CLP2	R	26.7	( )	7, 8, 9, 10	J/UJ/P (C)
		CCV		N	26.1	( )	↓	↓
				P	41.4	( )		
				Q	26.5	( )		
						( )		
						( )		
	12/29/10	IP10363.62	RTX CLP1	Mirex	29.6	( )	↓	J/UJ/A (C)
		CCV	RTX CLP2	↓	27.6	( )		J/UJ/P
						( )		
						( )		
	12/29/10	IP10363.60	RTX CLP1	Θ	16.2 (≤ 15%)	( )	7	J/UJ/A qual DDT only (* ~~H~~ M)
		PEM				( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		

LDC #: 25337J 39

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Are surrogates required by the method? Yes___ or No___.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

(S)

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	7	RTX CLP2	O	129 (20 - 120)	J/A det qual A, B, C, P, E, & F
	10	RTX CLP2	O	0 (20 - 120)	J/R/A qual all ex cept O
			Y	18 (50 - 130)	
	2,4	55 % Recovery	outside limit	( )	no qual SX PL

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 25337J3a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y N N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	lcs/D water	J	( )	137 (66-134)	( )	All water	J/Pdet (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
	lcs soil	P	131 (59-125)	( )	( )	All soil 8-56	J/Pdet (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 25337J3a

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer:

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD Bet 2 columns ≤ 40 Finding	Associated Samples	Qualifications
	C	60.48	2	J/A det (* X III)
	E	46.10	↓	↓
	C	49.61	3	
	D	47.81	4	
	C	74.31		
	O	89.72		
	R	92.84		
	C	75.53	6	
	D	41.39	7	
	C	64.77	|	|
	I	70.67	|	|
	R	65.22	↓	✓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337J3a

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer:

METHOD: __ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	%RPD But 2 column Finding < 40	Associated Samples	Qualifications
	A	56-90	10	J/A det (*X111)

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25 337J 3c
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JTG
2nd Reviewer: CA

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (10/std)	Recalculated CF (10/std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL IP6356	12/22/10	endosulfan 1 RTXCLP1	5.13×10^{2}	5.13×10^{2}	5.20×10^{2}	5.20×10^{2}	2.5	2.5
			methoxyclor	1.60×10^{2}	1.60×10^{2}	1.66×10^{2}	1.66×10^{2}	4.7	4.7
			RTXCLP2	5.14×10^{3}	5.14×10^{3}	5.23×10^{3}	5.23×10^{3}	4.0	4.0
2			↓	1.22×10^{3}	1.22×10^{3}	1.25×10^{3}	1.25×10^{3}	3.5	3.5
3	ICAL IP10363	12/29/10	↓ RTXCLP1	4.10×10^{3}	4.10×10^{3}	4.19×10^{3}	4.19×10^{3}	2.8	2.8
			↓	1.11×10^{3}	1.11×10^{3}	1.13×10^{3}	1.13×10^{3}	5.2	5.2
			RTXCLP2	1.92×10^{3}	1.92×10^{3}	1.99×10^{3}	1.99×10^{3}	4.6	4.6
4			↓	7.65×10^{2}	7.65×10^{2}	7.85×10^{2}	7.85×10^{2}	7.0	7.0

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3c
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer:
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported 10/100 CF (std)	Recalculated 10/100 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/7/11	endosulfan I RTX CLP1	3.78×10^3	3.78×10^3	3.95×10^3	3.95×10^3	3.8	3.8
			methoxychlor	1.08×10^3	1.08×10^3	1.14×10^3	1.14×10^3	8.7	8.7
			RTX CLP2	1.82×10^3	1.82×10^3	1.92×10^3	1.92×10^3	4.9	4.9
2		1/12/11	↓	7.39×10^2	7.39×10^2	7.83×10^2	7.83×10^2	8.9	8.9
			RTX CLP1	3.98×10^3	3.98×10^3	4.23×10^3	4.23×10^3	3.9	3.9
			↓	1.06×10^3	1.06×10^3	1.14×10^3	1.14×10^3	7.1	7.1
3			RTX CLP2	2.20×10^3	2.20×10^3	2.30×10^3	2.30×10^3	3.0	3.0
			↓	4.74×10^2	4.74×10^2	5.10×10^2	5.10×10^2	5.4	5.4
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3c
SDG #: all cases

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(Ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	2P635605R	12/24/10	endosulfan I RTXCLP1	10.0	8.63	8.63	13.7	13.7
			methoxyclor	100.0	87.94	87.94	12.1	12.1
			RTXCLP2	↓	9.05	9.05	9.5	9.5
2			↓	↓	94.52	94.52	5.5	5.5
3	1P10363.6	12/29/10	↓ RTXCLP1	10.0	7.14	7.14	28.6	28.6
			↓	100	60.01	6001	40.0	40.0
			RTXCLP2	10.0	7.33	7.33	26.7	26.7
4			↓	10U	58.61	58.61	41.4	41.4

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3a
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #2

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene	RTXCLP1	104	0.923717	89	89	0
Tetrachloro-m-xylene	RTXCLP2	↓	0.898354	86	86	↓
Decachlorobiphenyl	↓	1.0	0.192945	19	19	↓
Decachlorobiphenyl	↓	↓	1.493997	143	143	↓

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes:

LDC #: 25337J3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = | LCS - LCSD | * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCSID water

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma-BHC	0.099	0.099	0.094	0.10	95	95	101	101	6	6
4,4'-DDT	0.2	0.2	0.17	0.18	85	85	90	90	6	6

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3a
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. #2 delta-BHC

$$\text{Conc.} = \frac{(5814)(10000)(2)}{(2.38\times10^{3})(60)(0.872)(1000)}$$

$$= 0.9338 \text{ ug/kg}$$

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Note: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 10 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No polychlorinated biphenyl contaminants were found in this blank.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-002-SA5C-SB-4.0-5.0	Not specified	Decachlorobiphenyl	121 (45-120)	All TCL compounds	J (all detects)	P
SED-024-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	142 (45-120)	All TCL compounds	J (all detects)	P
SED-023-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	132 (45-120)	All TCL compounds	J (all detects)	P
SL-125-SA5B-SS-0.0-0.5	Not specified	Decachlorobiphenyl	127 (45-120)	All TCL compounds	J (all detects)	P
SL-126-SA5B-SS-0.0-0.5	Not specified	Decachlorobiphenyl	151 (45-120)	All TCL compounds	J (all detects)	P
SED-027-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	155 (45-120)	All TCL compounds	J (all detects)	P
SED-026-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl Tetrachloro-m-xylene	185 (45-120) 195 (53-139)	All TCL compounds	J (all detects)	P
SL-060-SA5C-SB-10.0-11.0	Not specified	Decachlorobiphenyl	151 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Affected Compounds	Flag	A or P
LCS/D water (All water samples in SDG DE039)	Aroclor 5442	58 (75-125)	56 (75-125)	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects) UJ (all non-detects)	P
LCS/D soil (All soil and sediment samples in SDG DE039)	Aroclor 5442	58 (75-125)	55 (75-125)	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-024-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	77.02 46.31	J (all detects) J (all detects)	A
SED-023-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	77.34 58.29	J (all detects) J (all detects)	A
SL-125-SA5B-SS-0.0-0.5	PCB-1254	56.93	J (all detects)	A
SL-126-SA5B-SS-0.0-0.5	PCB-1260	74.88	J (all detects)	A
SED-027-SIV-SD-0.0-0.5	PCB-1254	48.24	J (all detects)	A
SED-026-SIV-SD-0.0-0.5	PCB-1254	54.02	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE039	EB02-SA5B-121410 SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SL-060-SA5C-SB-10.0-11.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-125-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	PCB-1254	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-126-SA5B-SS-0.0-0.5	PCB-1260	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J3b

SDG #: DE039

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 5/11/11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% RSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	SW	LCS ID
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	EB = 3

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

Validated Samples: Soil, Sediment, water

1	SL-002-SA5C-SB-4.0-5.0 Soil	11	SL-126-SA5B-SS-0.0-0.5 S	21	PBLK19354	31	
2	SL-002-SA5C-SB-9.0-10.0	12	SL-129-SA5B-SS-0.0-0.5	22	PBLK17350	32	
3	EB02-SA5B-121410 W	13	SL-128-SA5B-SS-0.0-0.5	23		33	
4	SL-004-SA5C-SB-9.0-10.0 S	14	SED-027-SIV-SD-0.0-0.5 Sed	24		34	
5	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	15	SED-026-SIV-SD-0.0-0.5	25		35	
6	SL-140-SA5C-SB-3.0-4.0	16	SL-060-SA5C-SB-10.0-11.0	26		36	
7	SED-024-SIV-SD-0.0-0.5 Sed	17		27		37	
8	SED-023-SIV-SD-0.0-0.5	18		28		38	
9	SED-022-SIV-SD-0.0-0.5	19		29		39	
10	SL-125-SA5B-SS-0.0-0.5 S	20		30		40	

Notes: _____

LDC #: 25337136
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FR
2nd Reviewer: [illegible]

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: JS 33713b
SDG #: all cancel

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC #: 25337J3b

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: ✓ GC ___ HPLC

Are surrogates required by the method? Yes___ or No___.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	1	NS	θ	121 (45-120)	J/Pdet (S)
	7	↓	↓	142 ( )	
	8		θ	132 ( )	
	10		θ	127 (↓)	
	9		Y	50 (53-139)	no qual 50x DL
	11		θ	151 (45-120)	J/Pdet (S)
	12		↓	129 (↓)	no qual 10x DL
	14		↓	155 ( )	J/Pdet (S)
	15		↓	185 ( )	
				195 (53-139)	
	16	↓	↓	151 (↓)	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 25337J3b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: __ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y N N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	LCS/D soil water	Aroclor 5442	58 (75-125)	56 (75-125)	( )	All water	J/UJ/P (L)
			( )	( )	( )		
			( )	( )	( )		(Qual 5438 5442 5460)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
	LCS/D soil	↓	58 (↓)	55 (↓)	( )	All soil & sed	J/UJ/P (L)
			( )	( )	( )		
			( )	( )	( )		(Qual 5438, 5442, 5460)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 25337J3b

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD Bet. 2 columns Finding ≤ 40	Associated Samples	Qualifications
	PCB - 1254	77.02	7	J/A det (* x 111)
	PCB - 1260	46.31		↓
	↓	77.34	8	
		58.29		
			9	
	PCB - 1254	56.93	10	
	PCB - 1260	74.88	11	
	PCB - 1254	48.24	14	
	PCB - 1254	54.02	15	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337J36
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (2W std)	Recalculated CF (2W std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/18/10	Anochlor 1260-1 (ZBR1)	83	83	82	82	9.5	9.5
			↓ (ZBR2)	186	186	181	181	9.2	9.2
2	ICAL	12/28/10	↓	70	70	68	68	6.6	6.6
				170	170	164	164	5.7	5.7
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337136
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV 4:04	12/22/10	Aroclor 1260 (ZBR1)	200	195.47	195.47	2-3	2.3
			↓ (ZBR2)	↓	214.96	214.96	7.5	7.5
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J55
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer:

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ZB RI	1.04	1.154022	111	111	0
DCB	↓	↓	1.24452	121	120	1

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J3b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 160510 SO12

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Aroclor 5442	16.67	16.67	9.6	9.2	58	58	55	55	4	4

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J3b
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #4 Compound Name Aroclor 1254

Concentration = $\frac{0.5458}{0.832}$

= 0.66 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	Aroclor 1254-2	1911 / 30189	.6656 = X/200	X = 12.66	
					Aroclor 1254-2 = 0.422
		↓ = 12.66/(60)(1000)	(2000) = 0.422		3 = 0.710
					4 = 0.316
					5 = 0.436
					6 = 0.845
					Ave = 0.5458

Comments: [illegible]

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 12, 2011

Matrix: Soil/Sediment/Water

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD
SL-002-SA5C-SB-4.0-5.0DUP

Introduction

This data review covers 13 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Cadmium Copper Lead Phosphorus Potassium Thallium Tin Vanadium	0.077 mg/Kg 0.070 mg/Kg 0.018 mg/Kg 1.509 mg/Kg 31.276 mg/Kg 0.041 mg/Kg 1.407 mg/Kg 0.051 mg/Kg	All soil and sediment samples in SDG DE039
ICB/CCB	Antimony Beryllium	0.31 ug/L 0.13 ug/L	All soil and sediment samples in SDG DE039
ICB/CCB	Potassium Magnesium Titanium	334 ug/L 41.0 ug/L 0.67 ug/L	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Potassium Titanium	353.0 ug/L 0.72 ug/L	SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0
ICB/CCB	Copper	0.24 ug/L	SL-002-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5
ICB/CCB	Copper	0.22 ug/L	SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0
PB (prep blank)	Calcium Magnesium Titanium	96.010 ug/L 42.140 ug/L 0.22 ug/L	All water samples in SDG DE039
ICB/CCB	Aluminum Antimony Beryllium Calcium Magnesium Mercury	87.0 ug/L 0.33 ug/L 0.080 ug/L 114 ug/L 85.7 ug/L 0.021 ug/L	All water samples in SDG DE039

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-002-SA5C-SB-4.0-5.0	Antimony Cadmium Tin	0.16 mg/Kg 0.089 mg/Kg 2.8 mg/Kg	0.16U mg/Kg 0.089U mg/Kg 2.8U mg/Kg
SL-002-SA5C-SB-9.0-10.0	Tin	3.0 mg/Kg	3.0U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-004-SA5C-SB-9.0-10.0	Tin	2.8 mg/Kg	2.8U mg/Kg
SL-004-SA5C-SB-4.0-5.0	Cadmium Tin	0.24 mg/Kg 2.5 mg/Kg	0.24U mg/Kg 2.5U mg/Kg
SL-140-SA5C-SB-3.0-4.0	Antimony Cadmium Tin	0.17 mg/Kg 0.053 mg/Kg 2.6 mg/Kg	0.17U mg/Kg 0.053U mg/Kg 2.6U mg/Kg
SED-024-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.19 mg/Kg 0.25 mg/Kg 2.7 mg/Kg	0.19U mg/Kg 0.25U mg/Kg 2.7U mg/Kg
SED-023-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.24 mg/Kg 0.22 mg/Kg 2.4 mg/Kg	0.24U mg/Kg 0.22U mg/Kg 2.4U mg/Kg
SED-022-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.25 mg/Kg 0.36 mg/Kg 2.3 mg/Kg	0.25U mg/Kg 0.36U mg/Kg 2.3U mg/Kg
SL-125-SA5B-SS-0.0-0.5	Tin	3.0 mg/Kg	3.0U mg/Kg
SL-126-SA5B-SS-0.0-0.5	Tin	2.9 mg/Kg	2.9U mg/Kg
SL-129-SA5B-SS-0.0-0.5	Tin	2.6 mg/Kg	2.6U mg/Kg
SL-128-SA5B-SS-0.0-0.5	Antimony Cadmium Tin	0.23 mg/Kg 0.31 mg/Kg 3.1 mg/Kg	0.23U mg/Kg 0.31U mg/Kg 3.1U mg/Kg
SED-027-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.16 mg/Kg 0.26 mg/Kg 2.6 mg/Kg	0.16U mg/Kg 0.26U mg/Kg 2.6U mg/Kg
SED-026-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.13 mg/Kg 0.26 mg/Kg 3.0 mg/Kg	0.13U mg/Kg 0.26U mg/Kg 3.0U mg/Kg
SL-060-SA5C-SB-10.0-11.0	Cadmium Tin	0.22 mg/Kg 2.9 mg/Kg	0.22U mg/Kg 2.9U mg/Kg

Sample EB02-SA5B-121410 was identified as an equipment blank. No metal contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB02-SA5B-121410	12/14/10	Iron Lead Molybdenum	53.3 ug/L 0.075 ug/L 0.32 ug/L	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (All soil and sediment samples in SDG DE039)	Arsenic	292 (75-125)	228 (75-125)	-	J (all detects)	A
	Beryllium	197 (75-125)	149 (75-125)	-	J (all detects)	
	Cadmium	169 (75-125)	171 (75-125)	-	J (all detects)	
	Chromium	211 (75-125)	194 (75-125)	-	J (all detects)	
	Cobalt	149 (75-125)	143 (75-125)	-	J (all detects)	
	Copper	159 (75-125)	157 (75-125)	-	J (all detects)	
	Lead	257 (75-125)	229 (75-125)	-	J (all detects)	
	Molybdenum	175 (75-125)	165 (75-125)	-	J (all detects)	
	Nickel	172 (75-125)	164 (75-125)	-	J (all detects)	
	Potassium	139 (75-125)	-	-	J (all detects)	
	Silver	173 (75-125)	162 (75-125)	-	J (all detects)	
	Thallium	225 (75-125)	203 (75-125)	-	J (all detects)	
	Vanadium	264 (75-125)	249 (75-125)	-	J (all detects)	
SL-002-SA5C-SB-4.0-5.0MS/MSD (All soil and sediment samples in SDG DE039)	Phosphorus	-	66 (75-125)	-	J (all detects) UJ (all non-detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0DUP (All soil and sediment samples in SDG DE039)	Arsenic Barium Chromium Copper Lead Nickel Vanadium Zinc	29 (≤20) 33 (≤20) 28 (≤20) 27 (≤20) 28 (≤20) 26 (≤20) 27 (≤20) 30 (≤20)	- - - - - - - -	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SL-002-SA5C-SB-4.0-5.0	Barium Lead Lithium Potassium Zinc	13 (≤10) 17 (≤10) 14 (≤10) 12 (≤10) 16 (≤10)	All soil and sediment samples in SDG DE039	J (all detects) UJ (all non-detects)	A

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE039	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE039

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Potassium Silver Thallium Vanadium	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Phosphorus	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Arsenic Barium Chromium Copper Lead Nickel Vanadium Zinc	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Barium Lead Lithium Potassium Zinc	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE039

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE039	SL-002-SA5C-SB-4.0-5.0	Antimony Cadmium Tin	0.16U mg/Kg 0.089U mg/Kg 2.8U mg/Kg	A	B
DE039	SL-002-SA5C-SB-9.0-10.0	Tin	3.0U mg/Kg	A	B
DE039	SL-004-SA5C-SB-9.0-10.0	Tin	2.8U mg/Kg	A	B
DE039	SL-004-SA5C-SB-4.0-5.0	Cadmium Tin	0.24U mg/Kg 2.5U mg/Kg	A	B
DE039	SL-140-SA5C-SB-3.0-4.0	Antimony Cadmium Tin	0.17U mg/Kg 0.053U mg/Kg 2.6U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE039	SED-024-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.19U mg/Kg 0.25U mg/Kg 2.7U mg/Kg	A	B
DE039	SED-023-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.24U mg/Kg 0.22U mg/Kg 2.4U mg/Kg	A	B
DE039	SED-022-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.25U mg/Kg 0.36U mg/Kg 2.3U mg/Kg	A	B
DE039	SL-125-SA5B-SS-0.0-0.5	Tin	3.0U mg/Kg	A	B
DE039	SL-126-SA5B-SS-0.0-0.5	Tin	2.9U mg/Kg	A	B
DE039	SL-129-SA5B-SS-0.0-0.5	Tin	2.6U mg/Kg	A	B
DE039	SL-128-SA5B-SS-0.0-0.5	Antimony Cadmium Tin	0.23U mg/Kg 0.31U mg/Kg 3.1U mg/Kg	A	B
DE039	SED-027-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.16U mg/Kg 0.26U mg/Kg 2.6U mg/Kg	A	B
DE039	SED-026-SIV-SD-0.0-0.5	Antimony Cadmium Tin	0.13U mg/Kg 0.26U mg/Kg 3.0U mg/Kg	A	B
DE039	SL-060-SA5C-SB-10.0-11.0	Cadmium Tin	0.22U mg/Kg 2.9U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J4 **VALIDATION COMPLETENESS WORKSHEET** Date: 5-2-11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AL
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	A	Sampling dates: 12/14/10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	EB=3

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

Validated Samples: ~~sediment~~ soil/water

1	SL-002-SA5C-SB-4.0-5.0 Soil	11	SL-126-SA5B-SS-0.0-0.5 S	21		31	PBW
2	SL-002-SA5C-SB-9.0-10.0	12	SL-129-SA5B-SS-0.0-0.5	22		32	PBS
3	EB02-SA5B-121410 W	13	SL-128-SA5B-SS-0.0-0.5	23		33	
4	SL-004-SA5C-SB-9.0-10.0 Soil	14	SED-027-SIV-SD-0.0-0.5	24		34	
5	SL-004-SA5C-SB-4.0-5.0	15	SED-026-SIV-SD-0.0-0.5	25		35	
6	SL-140-SA5C-SB-3.0-4.0	16	SL-060-SA5C-SB-10.0-11.0	26		36	
7	SED-024-SIV-SD-0.0-0.5	17	(X1) MS	27		37	
8	SED-023-SIV-SD-0.0-0.5	18	MSD	28		38	
9	SED-022-SIV-SD-0.0-0.5	19	DUP	29		39	
10	SL-125-SA5B-SS-0.0-0.5	20		30		40	

Notes: _____

LDC #: 25337J4

VALIDATION FINDINGS CHECKLIST

Reviewer: GB
2nd Reviewer: TN

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

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.				
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.		✓		
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 25337J4

VALIDATION FINDINGS CHECKLIST

Reviewer: eR
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?		✓		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?	✓			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓	✓		
Target analytes were detected in the field blanks.	✓			

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-16		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC:17-19		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICP: 2xdil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil [illegible]

				Sample Identification														
Analyte	Maximum PB[a] (mg/Kg)	Maximum ICB/CCB[a] (ug/l)	Blank Action Limit	1	2	4	5	6	7	8	9	10	11	12	13	14	15	16
Sb		0.31	0.31	0.16				0.17	0.19	0.24	0.25				0.23	0.16	0.13	
Be		0.13	0.13															
Cd	0.077		0.385	0.089			0.24	0.053	0.25	0.22	0.36				0.31	0.26	0.26	0.22
Cu	0.070		0.35															
Pb	0.018		0.09															
P	1.509		7.545															
K	31.276		156.38															
Tl	0.041		0.205															
Sn	1.407		7.035	2.8	3.0	2.8	2.5	2.6	2.7	2.4	2.3	3.0	2.9	2.6	3.1	2.6	3.0	2.9
V	0.051		0.255															

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 2

					Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/l)	Maximum ICB/CCB[a] (ug/l)	Blank Action Limit	No Qualifiers (>5x)										
K			334	167											
Mg			41.0	20.5											
Ti			0.67	0.335											

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 4-16

					Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/l)	Maximum ICB/CCB[a] (ug/l)	Blank Action Limit	No Qualifiers (>5x)										
K			353.0	176.5											
Ti			0.72	0.36											

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: [handwritten initials]
2nd Reviewer: [handwritten initials]

METHOD: Trace Metals (EPA SW 846 Method 6020/7000) Soil preparation factor applied: 100x x (ICP: 2xdil)
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 6-14

					Sample Identification									
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	No Qualifiers (>5x)									
Cu			0.24	0.24										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 2, 4, 5, 15, 16

					Sample Identification									
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	No Qualifiers (>5x)									
Cu			0.22	0.22										

Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Water

					Sample Identification									
Analyte	Maximum PB[a] ~~(mg/Kg)~~	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	No Qualifiers (ND)									
Al	(ug/L)		87.0	435										
Sb			0.33	1.65										
Be			0.080	0.4										
Ca	96.010		114	570										
Mg	42.140		85.7	428.5										
Hg			0.021	0.105										
Ti	0.22			1.1										

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: AR
2nd Reviewer: W

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:** 100x

Sampling date: 12/14/10 Soil factor applied mg/Kg

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: ~~All Soil~~ 10 - 13

Analyte	Blank ID	Sample Identification										
	3	Action Level	No Qualifiers (>5x)									
Fe	53.3	26.65										
Pb	0.075	0.0375										
Mo	0.32	0.16										

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

LDC #: 25335J4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: CR
2nd Reviewer:

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?
(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding (ug/L)	Associated Samples	Qualifications
	12/22/10	ICSA (18:22)	Mn	4.0 (≤0.78)	All Soil + Sed	No Qual (>10x)
	12/22/10	ICSA (20:21)	Mn	4.0		
	12/22/10	ICSA (23:43)	Mn	4.0 (≤0.84)	All Water	No Qual (< 90% interferents)
	12/23/10	ICSA (00:45)	Mn	4.0		

Comments:

LDC #: 25335J4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

(Y) N N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	17/18	S	As	292	228		All Soil samples	J det/A (Q)
			Be	197	149			
			Cd	169	171			
			Cr	211	194			
			Co	149	143			
			Cu	159	157			
			Pb	257	229			
			Mo	175	165			
			Ni	172	164			
			P		66			J/UJ/A
			K	139				J det/A
			Ag	173	162			
			Tl	225	203			
			V	264	249			

Comments: _____

LDC #: 25333J4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Page: 1 of 1
Reviewer: QR
2nd Reviewer: L

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		19	S	As	29 (≤20)		All Soil + Sed	J/UJ/A (E)
				Ba	33			
				Cr	28			
				Cu	27			
				Pb	28			
				Ni	26			
				V	27			
				Zn	30			

Comments: _____

DUP.4SW

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Reviewer: CR
2nd Reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?
Y N N/A Were ICP serial dilution percent differences (%D) ≤10%?
Y N N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
		~~17/18~~02 1	S	~~As~~ Ba	13	All Soil samples	J/UJ/A (A)
				Pb	17	↓	
				Li	14		
				K	12		
				Zn	16		

Comments: _____

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: CS
2nd Reviewer: [illegible]

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

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	B	579.06	600	96.5	96.5	Y
ICV	ICP/MS (Initial calibration)	Cd	49.34	50	98.7	98.7	
ICV	CVAA (Initial calibration)	Hg	2.45	2.5	98.0	98.0	
CCV	ICP (Continuing calibration)	Sr	500.69	500	100.1	100.1	
CCV	ICP/MS (Continuing calibration)	Ag	25.09	25	100.4	100.4	
CCV	CVAA (Continuing calibration)	Hg	1.0	1.0	100.0	100.0	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: CR
2nd Reviewer:

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

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Cd	20.4	20	102.0	102.0	Y
LCS	Laboratory control sample	Ni	96.8	104.8	108	108	
17	Matrix spike	As	(SSR-SR) 1.2261	1.2301	100	100	
19	Duplicate	Mn	314.5718	278.0081	12	12	
1	ICP serial dilution	V	139.8	126.35	10	10	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25331J4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 3
Reviewer: AC
2nd reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Mn were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{100\,mL\,(2.98019\,mg/L)}{0.938\,(1.01g)} = 314.57\,mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	12500	12500	Y
		Sb	0.16	0.16	
		As	5.6	5.6	
		Ba	63.6	63.6	
		Be	0.53	0.53	
		B	3.0	3.0	
		Cd	0.089	0.089	
		Ca	3200	3200	
		Cr	14.1	14.1	
		Co	5.6	5.6	
		Cu	5.8	5.8	
		Fe	19800	19800	
		Pb	4.7	4.7	
		Li	22.8	22.8	
		Mg	3970	3970	
		Mn	315	315	
		Mo	0.47	0.47	
		Ni	8.5	8.5	
		P	330	330	
		K	2520	2520	

Note: _____

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: 02
2nd reviewer: 12

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Be were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$$\frac{100mL(2)(4.1\mu g/L)}{0.953(1.01g)(1000)} = 0.85 mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1 (cont)	Se	0.10	0.10	Y
		Ag	0.015	0.015	
		Na	95.4	95.4	
		Sr	12.3	12.3	
		Tl	0.36	0.36	
		Sn	2.8	2.8	
		Ti	1220	1220	
		V	29.5	29.5	
		Zn	59.4	59.4	
		~~Mo~~			
	11	Al	19800	19800	Y
		Sb	0.29	0.29	
		As	9.7	9.7	
		Ba	115	115	
		Be	0.85	0.85	
		B	2.4	2.4	
		Cd	0.39	0.39	
		Ca	3410	3410	
		Cr	34.5	34.5	
		Co	9.5	9.5	
		Cu	19.2	19.2	
		Fe	28000	28000	
		Pb	16.5	16.5	

LDC #: 25337J4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: CR
2nd reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for _____ were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: see previous page

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	11 (cont)	Li	27.4	27.4	Y
		Mg	5250	5250	
		Mn	364	364	
		Hg	0.011	0.011	
		Mo	1.1	1.1	
		Ni	20.6	20.6	
		P	736	736	
		K	4480	4480	
		Se	0.17	0.17	
		Ag	0.34	0.34	
		Na	100	100	
		Sr	23.9	23.9	
		Tl	0.44	0.44	
		Sn	2.9	2.9	
		Ti	1490	1490	
		V	60.5	60.5	
		Zn	140	140	
		Zr	4.4	4.4	✓

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 11, 2011
Matrix:	Soil/Sediment/Water
Parameters:	Herbicides
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

EB02-SA5B-121410
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5

Introduction

This data review covers 4 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8151A for Herbicides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 with the following exceptions:

Date	Column	Compound	r^2	Associated Samples	Flag	A or P
12/23/10	RTXCLPI	Dalapon	0.9803	All soil and sediment samples in SDG DE039	J (all detects) UJ (all non-detects)	A

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/19/10	2H18351.13.CCV	RTXCLP1	Dalapon 2,4-DP Dinoseb	26.1 28.9 22.5	All water samples in SDG DE039	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.60.CCV	RTXCLP1	Dalapon MCPA Dinoseb	22.7 28.3 34.2	SED-024-SIV-SD-0.0-0.5 PBLK25357	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.60.CCV	RTXCLP1	2,4,5-TP	23.1	PBLK25357	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.60.CCV	RTXCLP2	Dinoseb	20.3	SED-024-SIV-SD-0.0-0.5 PBLK25357	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/29/10	2H18357.72.CCV	RTXCLP1	Dalapon MCPA Dinoseb	28.8 35.1 33.7	SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A
12/29/10	2H18357.72.CCV	RTXCLP2	Dinoseb	21.3	SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
12/17/10	ICHBXFX-ICV	RTXCLP2	Dalapon 2,4,5-TP	34.4 20.3	All water samples in SDG DE039	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No herbicide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SED-022-SIV-SD-0.0-0.5	Not specified	Dichlorophenyl acetic acid	231 (36-156)	All TCL compounds	J (all detects)	A
SL-125-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	178 (36-156)	All TCL compounds	J (all detects)	A

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-126-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	157 (36-156)	All TCL compounds	J (all detects)	A
SL-129-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	193 (36-156)	All TCL compounds	J (all detects)	A
SL-128-SA5B-SS-0.0-0.5	Not specified	Dichlorophenyl acetic acid	162 (36-156)	All TCL compounds	J (all detects)	A
SED-026-SIV-SD-0.0-0.5	Not specified	Dichlorophenyl acetic acid	377 (36-156)	All TCL compounds	J (all detects)	A

VI. Matrix Spike/(Matrix Spike) Duplicate

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCSsoil	2,4-D	144 (40-140)	All soil and sediment samples in SDG DE039	J (all detects)	P
LCSsoil	Dinoseb	8 (10-36)	All soil and sediment samples in SDG DE039	J (all detects) R (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-022-SIV-SD-0.0-0.5	2,4,5-T	44.79	J (all detects) J (all detects)	A
SL-128-SA5B-SS-0.0-0.5	Dicamba	126.30	J (all detects)	A
SED-026-SIV-SD-0.0-0.5	Dicamba	104.24	J (all detects) J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Herbicides - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dalapon	J (all detects) UJ (all non-detects)	A	Initial calibration (r^2)(C)
DE039	EB02-SA5B-121410	Dalapon 2,4-DP Dinoseb	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dalapon MCPA Dinoseb	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE039	EB02-SA5B-121410	Dalapon 2,4,5-TP	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-026-SIV-SD-0.0-0.5	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	2,4-D	J (all detects)	P	Laboratory control samples (%R) (L)
DE039	SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	P	Laboratory control samples (%R) (L)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SED-022-SIV-SD-0.0-0.5	2,4,5-T	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE039	SL-128-SA5B-SS-0.0-0.5 SED-026-SIV-SD-0.0-0.5	Dicamba	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE039	EB02-SA5B-121410 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J5 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EA
2nd Reviewer:

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	SW	%RSD ≤ 20, r^2
III.	Calibration verification/ICV	SW	%D CCV/ICV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	N	client specific
VII.	Laboratory control samples	SW	LCS ID
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	NP	EB = 1

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

Validated Samples: soils, sediments, water

1	EB02-SA5B-121410	11	~~BLANKA~~	21		31	
2	SED-024-SIV-SD-0.0-0.5	12	PBLK36350	22		32	
3	SED-023-SIV-SD-0.0-0.5	13	PBLK25357	23		33	
4	SED-022-SIV-SD-0.0-0.5	14		24		34	
5	SL-125-SA5B-SS-0.0-0.5	15		25		35	
6	SL-126-SA5B-SS-0.0-0.5	16		26		36	
7	SL-129-SA5B-SS-0.0-0.5	17		27		37	
8	SL-128-SA5B-SS-0.0-0.5	18		28		38	
9	SED-027-SIV-SD-0.0-0.5	19		29		39	
10	SED-026-SIV-SD-0.0-0.5	20		30		40	

Notes:

LDC #: 25337J5
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer:

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓	✓		
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?		✓		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	✓			
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25 33705
SDG #: all cond

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

VALIDATION FINDINGS WORKSHEET

METHOD: ____GC ____HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes: _____

LDC #: 25337J5
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: __ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a 5 point calibration curve performed?
Y N N/A Was a linear fit used for evaluation? If yes, the acceptance criteria for each compound is %RSD less than or equal to 20.0%.
Y N N/A Was a curve fit used for evaluation? If yes, what was the acceptance criteria used for evaluation? ____________
Y N N/A Did the initial calibration meet the acceptance criteria?
Y N N/A Was initial calibration performed at the required frequency?

Level IV Only

Y N N/A Were the retention time windows properly established for all compounds?
Y N N/A Were compounds run at the required concentrations in the initial calibrations?

#	Date	Standard ID	Column / Detector	Compound	Finding RPD Limit ≤20%	Associated Samples	Qualifications
	12/23/10	1H18357ICAL	RTXCLP1	H	r^2 = 0.9803 (≥ 0.990)	All soil 8-Sed	J/UJ/A C

Comments____________________

LDC #: 53375J5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 7
Reviewer: FT

METHOD: ✓ GC __ HPLC

2nd Reviewer: A

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? __%D or __RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies? 20
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤15.0%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 15.0) 20	RT (limit)	Associated Samples	Qualifications
	12/17/10	1CHBX FX-1CV	RTXCLP2	H	34.4	( )	all water	J/UJ/A (C)
				D	20.3	( )	↓	↓
						( )		
						( )		
	12/19/10	2H18351.13.CCV	RTXCLP1	H	26.1	( )		(C)
				2,4-DP	28.9	( )		
				E	22.5	( )	↓	↓
						( )		
						( )		
	12/29/10	2H18357.60.CCV	RTXCLP1	H	22.7	( )	PBLK25357, 2	J/UJ/A (C)
				J	28.3	( )	↓	
✓				D	23.1	( )	PBLK25357	
				E	34.2	( )	PBLK25357, 2	↓
						( )		
	12/29/10	↓	RTXCLP2	E	20.3	( )	PBLK25357, 2	J/UJ/A (C)
						( )		
						( )		
	12/29/10	2H18357.72.CCV	RTXCLP1	H	28.8	( )	3 → 10	J/UJ/A (C)
				J	35.1	( )		
				E	33.7	( )	↓	↓
	12/29/10	↓	RTXCLP2	E	21.3	( )		
						( )		
						( )		
						( )		

LDC #: 25337J5

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: __ GC __ HPLC

Are surrogates required by the method? Yes____ or No____.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	4	NS	* Q	231 (36-156)	J/A det (S)
	5			178 ( )	↓ (S)
	6			157 ( )	↓ (S)
	7			193 ( )	↓ (S)
	8			162 ( )	↓ (S)
	10	↓	↓	377 ( )	↓ (S)
	*2,4			( )	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 25337J5

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y N N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	LCSsoil	A	144 (40-140)	( )	( )	All soil ~ sed	J/Pdet (L)
		E	8 (10-36)	( )	( )	↓	J/R/P (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 25337J5

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer: A

METHOD: __ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD Between 2 columns Finding ±40	Associated Samples	Qualifications
	DN C	44.79	4	J/A det (*1X)
	G	126.30	8	↓ ↓
	G	104.24	10	↓ ↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337J5
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 2
Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (20.020/19.8 std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL #8456A 1H15357	12/23/10	Dicamba RTXcLP	4.94×10^{-1}	4.94×10^{-1}	4.89×10^{-1}	4.89×10^{-1}	6.3	6.3
			2,4,5-TP ↓	7.43×10^{-1}	7.43×10^{-1}	7.03×10^{-1}	7.03×10^{-1}	3.8	3.8
2			↓ RTXcLP2	5.55×10^{-1}	5.55×10^{-1}	5.43×10^{-1}	5.43×10^{-1}	9.9	9.9
			↓	7.54×10^{-1}	7.54×10^{-1}	7.17×10^{-1}	7.17×10^{-1}	4.9	4.9
3	ICAL HP5231A 1H18357	12/23/10	↓	5.76×10^{-1}	5.76×10^{-1}	5.91×10^{-1}	5.91×10^{-1}	17.5	17.5
			↓	7.55×10^{-1}	7.55×10^{-1}	7.29×10^{-1}	7.29×10^{-1}	14.7	14.7
4			↓	4.87×10^{-1}	4.87×10^{-1}	4.81×10^{-1}	4.81×10^{-1}	3.8	3.8
			↓	7.21×10^{-1}	7.21×10^{-1}	6.83×10^{-1}	6.83×10^{-1}	3.4	3.4

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J5
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ( ) HPLC ( )

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (20.020 / 19.8 std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL HP23IA 141835	2/17/10	Dicamba RTXCLP1	5.42×10^{-1}	5.42×10^{-1}	5.55×10^{-1}	5.55×10^{-1}	12.1	12.1
			2,4,5-TP	6.93×10^{-1}	6.93×10^{-1}	6.91×10^{-1}	6.91×10^{-1}	14.9	14.9
2			↓ RTXCLP2	4.81×10^{-1}	4.81×10^{-1}	4.86×10^{-1}	4.86×10^{-1}	9.3	9.3
				7.04×10^{-1}	7.04×10^{-1}	6.80×10^{-1}	6.80×10^{-1}	2.3	2.3
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J5
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: EJ
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	2H18351.13	12/19/10	Dicamba RTXclP1	40.04	38.37	38.37	4.2	4.2
			2,4,5-TP	39.60	36.79	36.79	7.1	7.1
			RTXclP2		38.98	38.98	2.6	2.6
2			↓	↓	40.46	40.46	2.2	2.2
	2H18357.60	12/29/10	RTXclP1		40.40	40.40	0.9	0.9
			↓	↓	30.46	30.46	23.1	23.1
3			RTXclP2		39.25	39.25	2.0	2.0
			↓	↓	36.61	36.61	7.5	7.5
	2H18357.72	12/29/10	RTXclP1		39.07	39.07	2.4	2.4
4			↓	↓	32.00	32.00	19.2	19.2
			RTXclP2		38.89	38.89	2.9	2.9
			↓	↓	36.80	36.80	7.1	7.1

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 23335J5
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: ____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
#2	RTxclp1	6.66	8.528 128	128	128	0

Sample ID: ____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: ____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J5
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS 8012

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	8.33	NA	12	NA	144	144				
Dinoseb (8151)	14.2	↓	1.2	↓	8	8	NA			
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J5
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #2 Compound Name Dicamba

Concentration = $\frac{(10148)(100)(2000)}{(77751)(4.81 \times 10^{-1})(60)(0.872)(1000}$

1.037 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: June 23, 2011

Matrix: Soil/Sediment/Water

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-140-SA5C-SB-3.0-4.0
SED-024-SIV-SD-0.0-0.5
SED-023-SIV-SD-0.0-0.5
SED-022-SIV-SD-0.0-0.5
SL-125-SA5B-SS-0.0-0.5
SL-126-SA5B-SS-0.0-0.5
SL-129-SA5B-SS-0.0-0.5
SL-128-SA5B-SS-0.0-0.5
SED-027-SIV-SD-0.0-0.5
SED-026-SIV-SD-0.0-0.5
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0DUP
SL-129-SA5B-SS-0.0-0.5MS
SL-129-SA5B-SS-0.0-0.5DUP

Introduction

This data review covers 14 soil samples, 5 sediment samples, and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 9012B for Cyanide, EPA Method 300.0 for Fluoride and Nitrate as Nitrogen, EPA SW 846 Method 7199 for Hexavalent Chromium, EPA SW 846 Method 9045C for pH, and EPA Method 314.0 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

Sample EB02-SA5B-121410 was identified as an equipment blank. No contaminant concentrations were found in this blank.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SL-129-SA5B-SS-0.0-0.5MS (SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0)	Fluoride	65 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE039	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE039

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE029	SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE029	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-140-SA5C-SB-3.0-4.0 SED-024-SIV-SD-0.0-0.5 SED-023-SIV-SD-0.0-0.5 SED-022-SIV-SD-0.0-0.5 SL-125-SA5B-SS-0.0-0.5 SL-126-SA5B-SS-0.0-0.5 SL-129-SA5B-SS-0.0-0.5 SL-128-SA5B-SS-0.0-0.5 SED-027-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-060-SA5C-SB-10.0-11.0	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J6
SDG #: DE039
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 5-2-11
Page: 1 of 1
Reviewer: QR
2nd Reviewer:

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-N, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), ~~Oxidation Reduction Potential (ASTM D1498)~~, pH (EPA SW846 Method 9045C) Perchlorate (EPA 314.0)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	~~A~~ SW	MS
V	Duplicates	A	DUP
VI.	Laboratory control samples	A	LCS/D
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	ND	EB=3

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

Validated Samples: all Soil except 3=water

1	SL-002-SA5C-SB-4.0-5.0	11	SL-126-SA5B-SS-0.0-0.5	21		31	PBLW
2	SL-002-SA5C-SB-9.0-10.0	12	SL-129-SA5B-SS-0.0-0.5	22		32	PBS
3	EB02-SA5B-121410	13	SL-128-SA5B-SS-0.0-0.5	23		33	
4	SL-004-SA5C-SB-9.0-10.0	14	SED-027-SIV-SD-0.0-0.5	24		34	
5	SL-004-SA5C-SB-4.0-5.0	15	SED-026-SIV-SD-0.0-0.5	25		35	
6	SL-140-SA5C-SB-3.0-4.0	16	SL-060-SA5C-SB-10.0-11.0	26		36	
7	SED-024-SIV-SD-0.0-0.5	17	(#1) MS	27		37	
8	SED-023-SIV-SD-0.0-0.5	18	↓ DUP	28		38	
9	SED-022-SIV-SD-0.0-0.5	19	(#12) MS	29		39	
10	SL-125-SA5B-SS-0.0-0.5	20	↓ DUP	30		40	

Notes:

LDC #: 25335J6

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: VC

Method: Inorganics (EPA Method See cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	✓			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were < 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓	✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target analytes were detected in the field duplicates.			✓	
X. Field blanks				
Field blanks were identified in this SDG.	✓			
Target analytes were detected in the field blanks.		✓		

LDC #: 25331J6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: [signature]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1,2,4,5,6 (3)		**pH** TDS Cl **F** **NO_3** NO_2 SO_4 PO_4 ALK **CN^-** NH_3 TKN TOC **CR^{6+}** **ClO_4**
3		pH TDS Cl **F** NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC **CR^{6+}** **ClO_4**
6-15		**pH** TDS Cl **F** NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC **CR^{6+}** **ClO_4**
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
QC: 17,18		pH TDS Cl **F** **NO_3** NO_2 SO_4 PO_4 ALK **CN^-** NH_3 TKN TOC **CR^{6+}** **ClO_4**
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4

Comments:

LDC #: 25337J6
SDG #: -

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: A
2nd Reviewer:

METHOD: Inorganics, EPA Method Sw Conv

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y N N/A Were matrix spike percent recoveries (%R) within the control limits of ~~75-125~~? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken. (80-120)

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	~~MSD~~ %Recovery	RPD (Limits)	Associated Samples	Qualifications
	19	So	F	65	-		12-16	J / UJ / A (a)

Comments:

LDC #: 25335D6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Reviewer: CR
2nd Reviewer: [illegible]

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 12/6/10

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found X 100 / True

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution

True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (mg/l)	Response	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	ClO4	s1	2	0.003	*1.000*	0.999	Y
		s2	4.00	0.01			
		s3	10.00	0.024			
		s4	25.00	0.063			
		s5	100.00	0.263			
Calibration verification	F	CCV	1,5	1,5115	101	101	
Calibration verification	NO3	↓	↓	1,4846	99	99	
Calibration verification	CN	↓	0,15	0,16090	107	107	↓

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25332J6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units) mg/kg	True / D (units) mg/kg	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	F	1.5	1.5	0	0	Y
17	Matrix spike sample	ClO_4	(SSR-SR) 522	495	105	105	J
18	Duplicate sample	NO_3	1.7	1.7	0	0	J

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25333T56

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer:

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for F / Cr^{6+} reported with a positive detect were recalculated and verified using the following equation:

Concentration =

F: $y = 0.2073x + 0.0021$

Recalculation: $x = F = \frac{0.05 - 0.0021}{0.2073} \times \frac{50\,mL}{5.08\,g\,(0.833)} = 2.7\,mg/kg$

Cr^{6+}: $y = 0.012749x - 0.00619$

$1{:}Cr^{6+} = \frac{((0.107341)78439158 - 0.4858)1000L}{1000(25g)(0.938)} = 0.338\,mg/kg$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
938	1	NO_3-N	1.8	1.8	Y
		Cr^{6+}	0.32	0.34	
		pH	8.45	8.45	
853	2	F	2.7	2.7	
		NO_3-N	1.1	1.1	
		Cr^{6+}	0.51	0.52	
		pH	7.77	7.77	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil/Water
Parameters:	Total Petroleum Hydrocarbons as Gasoline
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
TB-121410
EB02-SA5B-121410
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Gasoline.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as gasoline contaminants were found in the method blanks.

Sample TB-121410 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

Sample EB02-SA5B-121410 was identified as an equipment blank. No total petroleum hydrocarbons as gasoline contaminants were found in this blank.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 TB-121410 EB02-SA5B-121410 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J7 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EF
2nd Reviewer: AV

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV / CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCS ID
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	A	
XIII.	Field blanks	ND	TB = 3 EB = 4

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

Validated Samples: soil + water

1 2	SL-002-SA5C-SB-4.0-5.0	11 1	BLKKN	21		31	
2 2	SL-002-SA5C-SB-9.0-10.0	12	BLNKA	22		32	
3 1	TB-121410	13 2	BLNKB	23		33	
4 1	EB02-SA5B-121410 W	14		24		34	
5 2	SL-004-SA5C-SB-9.0-10.0	15		25		35	
6 2	SL-004-SA5C-SB-4.0-5.0 S.D	16		26		36	
7 2	SL-060-SA5C-SB-10.0-11.0	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337J7
SDG #: all water

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337J7
SDG #: all cont

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓	✓	
Target compounds were detected in the field duplicates.				
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.		✓		

LDC #: 25337J7
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (220std)	Recalculated CF (220std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/29/10	GRO	35488	35488	37329	37329	12.7	12.7
				(5520)	(5520)				
2	ICAL	8/10/10	GRO	30949	30949	30328	30328	9.0	9.0
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J7
SDG #: fw comm

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV 13:22	12/15/10	GRO	220.00	201.96	201.96	8.2	8.2
	CCV 12:23	12/17/10	GRO	220.00	188.25	188.25	14.4	14.4
2								
	CCV 20:21	12/17/10	GRO	220.00	190.60	190.60	13.4	13.4
3	CCV 14:20	12/17/10	GRO	550.0	547.52	547.52	0.4	0.4
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J /
SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TFT	NS	735	669.23	91	91	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J7
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: vas/D

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)	11	11	8.7	8.6	79	79	78	78	1	1
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J7
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 11, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Total Petroleum Hydrocarbons (TPH) as Extractables.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No total petroleum hydrocarbons as extractable contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J8 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11

SDG #: DE039 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	%D RSD ≤20
III.	Calibration verification/ICV	A	ICV/CCV ≤20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	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-002-SA5C-SB-4.0-5.0	11	PBLK06357	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337J8
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337J8
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337B8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: F?
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (288 std)	Recalculated CF (288 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/24/10	EFH C8-C40	13691	13691	14229	14229	4.6	4.6
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J8
SDG #: w cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	J358.36	12/27/10	EFH C8-C40	575.96	685.71	685.71	19.1	19.1
	J358.47	12/27/10	↓	287.98	293.33	293.33	1.9	1.9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 23 55 N8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
chlorobenzene	NS	1.0	0.78974	79	79	0
orthoterphenyl	↓	1.0	0.88195	88	88	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J8
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FO
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
EFH (C8-C11)	0.84	NA	0.63	NA	TS	TS	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J8
SDG #: pu seven

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: / GC __ HPLC

(Y) N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name EFH C30-C40

Concentration = $\frac{591570 \quad (1000)}{14229 \quad (60)(0.938(1000)}$

0.74 mg/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 10, 2011
Matrix:	Soil
Parameters:	Explosives
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8330A for Explosives.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds with the following exceptions:

Date	Column	Compound	%D	Associated Samples	Flag	A or P
12/14/10	Capcell CN	Tetryl	21.8	All samples in SDG DE039	J (all detects) UJ (all non-detects)	A

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No explosive contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Explosives - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	Tetryl	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J40 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer:

METHOD: HPLC Explosives (EPA SW 846 Method 8330A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	%RSD ≤20 ✓2
III.	Calibration verification/ICV	SW	%D ICV/CCV ≤20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	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-002-SA5C-SB-4.0-5.0	11	PBLK19355	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337J40
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FP
2nd Reviewer: A

Method: GC ✓ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337J4U
SDG #: all cancel

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: ____GC ____HPLC

8310	8330	8151	8141	8141 (Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2.4.6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrene	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes: _____

LDC #: 25337W40

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: __ GC ✓ __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? __%D or __RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ~~≤15.0~~ 20%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ ~~15.0~~ 20)	RT (limit)	Associated Samples	Qualifications
	12/14/10	ICV	Capcell CN	E	21.8	( )	All	J/UJ/A (C)
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
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						( )		
						( )		
						( )		

LDC #: 25337J40
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: GC_____HPLC ✓

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported 507.0/499.5 CF (std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/13/10	1,3-DNB (chrompack)	2.71×10^2	2.71×10^2	2.77×10^2	2.77×10^2	4.0	4.0
			Nitrobenzene	1.99×10^2	1.99×10^2	1.95×10^2	1.95×10^2	3.4	3.4
2			↓ (Capsell cN)	2.86×10^2	2.86×10^2	2.85×10^2	2.85×10^2	1.7	1.7
				1.67×10^2	1.67×10^2	1.73×10^2	1.73×10^2	11.5	11.5
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 35337J4U
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: JD

METHOD: GC_____HPLC ✓

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV 20:08	12/23/10	1,3- DNB (chrompack)	501.00	494.55	494.55	2.5	2.5
			nitrobenzene	499.50	483.91	483.91	3.1	3.1
2	CCV 4:36	12/24/10	↓ (chrompack)	1014.00	983.91	983.91	3.0	3.0
			↓	999.0	975.99	975.99	2.3	2.3
3	CCV 20.08	12/23/10	↓ (capcell CN)	507	510.03	510.03	0.6	0.6
			↓	499.50	496.84	496.84	0.5	0.5
4	CCV 4:36	12/24/10	↓ (capcell CN)	1014.00	1029.51	1029.51	1.5	1.5
			↓	999.0	946.98	946.98	5.2	5.2

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13 33N1U

SDG #: see cover

METHOD: ___ GC ✓ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
2-Nitro-m-xylene	chrompack	2500	2698.448	108	108	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J4U
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: EV
2nd Reviewer: SA

METHOD: __ GC ✓ HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)	2500.3	NA	2100	NA	83	83				
2,4,6-Trinitrotoluene (8330)	2499	↓	2700	↓	109	109	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J4U
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ___ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 11, 2011
Matrix:	Soil
Parameters:	Terphenyls
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Terphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No terphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The QAPP reporting limits (RL) were met with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG DE039	o-Terphenyl m-Terphenyl p-Terphenyl	Laboratory reporting limit reported at 3.5 mg/Kg.	Reporting limit should be reported at 0.167 mg/Kg per the QAPP.	None None None	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	o-Terphenyl m-Terphenyl p-Terphenyl	None None None	P	Compound quantitation and CRQLs (*IX)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J41 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: TD
2nd Reviewer: AT

METHOD: GC Terphenyls (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specific
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	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-002-SA5C-SB-4.0-5.0	11	PBLK27355	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337J41
SDG #: all water

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FP
2nd Reviewer: 1

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337J41
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FD
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓		✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337J4/

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer: A

METHOD: ✓ **GC** __ **HPLC**

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	Finding (Lab RL / QAPP RL)	Associated Samples	Qualifications
	m-Terphenyl	3.5 mg/kg / 0.167 mg/kg	All	nmo/p (* 1X)
	o- ↓	↓ / ↓	↓	↓
	p- ↓	↓ / ↓	↓	

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25337J4/
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/22/10	0 - Terphenyl	2.51 X10^4	2.51X10^4	2.52X10^4	2.52X10^4	1.3	1.3
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J4 /
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: EJ
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	R356.31	12/23/10	o-terphenyl	32.28	33.98	33.98	5.3	5.3
	R356.42	12/24/10	↓	32.28	33.55	33.55	3.9	3.9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 13 35 N 1/
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
n- Triacontane -d62	NS	0.333	0.322907	97	97	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J4/
SDG #: see cover

Reviewer: [illegible]
2nd Reviewer: [illegible]

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS ID

Compound	Spike Added (mg/kg)		Spiked Sample Concentration (mg/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
m-Terphenyl	1.68		1.7	1.7	100	100	102	102	2	2

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337Y1
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration =_____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 11, 2011
Matrix:	Soil
Parameters:	Alcohols
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Alcohols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No alcohol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J43 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/11/11

SDG #: DE039 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FI

2nd Reviewer: A

METHOD: GC Alcohols (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/ICV	A	
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specific
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	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-002-SA5C-SB-4.0-5.0	11	PBLK02354	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25 337J43
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer: A

Method: ✓ GC ____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337J43
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337J43
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (500 std)	Recalculated CF (500 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/20/10	methanol	3.34	3.34	3.17	3.17	6.1	6.1
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25332J43
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: A

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	CCV 21:09	12/20/10	Methanol	10,000	9791.62	9791.62	2.1	2.1
	CCV 23:50	12/20/10	Methanol	10000	94509.8	94509.8	5.5	5.5
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 21551U45
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: MW #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Acetone	NS	2500	2350.707	94	94	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: 25337J43
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: WS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Methane	2500	NA	1900	NA	78	78	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J43
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: / GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name methanol

Concentration = $\frac{745 \quad (5000)}{3.17 \quad (10)(0.938)(1000)}$

= 125.3 ug/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 13, 2011

Matrix: Soil

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0
SL-002-SA5C-SB-4.0-5.0MS
SL-002-SA5C-SB-4.0-5.0MSD

Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8015B for Glycols.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No glycol contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-002-SA5C-SB-4.0-5.0MS/MSD (SL-002-SA5C-SB-4.0-5.0)	Diethylene glycol	-	-	36 (≤20)	J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS	Propylene glycol	72 (75-125)	All samples in SDG DE039	J (all detects) UJ (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0	Diethylene glycol	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	Propylene glycol	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J45 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11

SDG #: DE039 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Glycols (EPA SW 846 Method 8015B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	%D RSD ≤ 20, r²
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	SW	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	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-002-SA5C-SB-4.0-5.0	11	PBLK1035J	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-~~53.0~~ 5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6	#1 MS	16		26		36	
7	#1 MSD	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 25337J45
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FD
2nd Reviewer: CA

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337145
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: CA

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?			✓	
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337J45

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A (Y circled) Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N N/A (Y circled) Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A (N circled) Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	6+7	Diethylene glycol	( )	( )	36 (20)	/	J/Adet (Q)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 25337J45

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A (Y circled) Was a LCS required?
Y N N/A (N circled) Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS	Propylene	72 (75-125)	( )	( )	all	J/UJ/P (L)
			9/40/	( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25337J45
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported 100.847 CF (std)	Recalculated 100.847 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/16/10	Ethylene g/µg/l	2.68×10^3	2.68×10^3	2.49×10^3	2.49×10^3	7.6	7.6
2	ICAL	12/21/10	Ethylene g/µg/l						
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J5
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: F2
2nd Reviewer: A

METHOD: GC ✓ HPLC_____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	E355.09	12/21/10	Ethylene glycol	100.85	93.68	93.68	7.1	7.1
	E355.2	12/21/10	↓	100.85	100.06	100.06	0.8	0.8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25 [illegible]

SDG #: see cover

METHOD: ✓ GC __ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: [illegible]

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
#						
Tetramethylene glycol	N5	197.	138.1246	70	70	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 13 ··/ J7 J
SDG #: see cover

Reviewer: FT
2nd Reviewer: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA   Where   SSC = Spiked sample concentration   SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100   MS = Matrix spike   MSD = Matrix spike duplicate

MS/MSD samples: 6 + 7

Compound	Spike Added (mg/Kg)		Sample Conc. (mg/Kg)	Spike Sample Concentration (mg/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	--	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
Ethylene glycol	199.44	199.44	ND	170	180	85	85	88	88	3	3

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J45
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FT
2nd Reviewer: Q

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (mg/Kg)		Spiked Sample Concentration (mg/Kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Ethylene Glycol	199.44	NA	160	NA	79	79	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J45
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID._____ Compound Name _____

Concentration = _____

ND

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 14, 2010
LDC Report Date:	May 11, 2011
Matrix:	Soil
Parameters:	Formaldehyde
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE039

Sample Identification

SL-002-SA5C-SB-4.0-5.0
SL-002-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-9.0-10.0
SL-004-SA5C-SB-4.0-5.0
SL-060-SA5C-SB-10.0-11.0

Introduction

This data review covers 5 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8315A for Formaldehyde.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) of calibration factors for compounds were less than or equal to 20.0% .

III. Calibration Verification

Calibration verification was performed at required frequencies. The percent differences (%D) of amounts in continuing standard mixtures were within the 20.0% QC limits.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No formaldehyde was found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Formaldehyde - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SL-002-SA5C-SB-4.0-5.0 SL-002-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-9.0-10.0 SL-004-SA5C-SB-4.0-5.0 SL-060-SA5C-SB-10.0-11.0	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J71 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/10/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HPLC Formaldehyde (EPA SW 846 Method 8315A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	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-002-SA5C-SB-4.0-5.0 (SOIL)	11	PBLK2135	21		31	
2	SL-002-SA5C-SB-9.0-10.0	12		22		32	
3	SL-004-SA5C-SB-9.0-10.0	13		23		33	
4	SL-004-SA5C-SB-4.0-~~5.0~~ 5.0	14		24		34	
5	SL-060-SA5C-SB-10.0-11.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 25337371
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FI
2nd Reviewer: [illegible]

Method: ✓ GC ______ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.			✓	
Was a MS/MSD analyzed every 20 samples of each matrix?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25337J71
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25337 J7/
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: F7
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported	Recalculated	Reported	Recalculated	Reported	Recalculated
				2002.0 CF (std)	2002.0 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	1 CAL	12/22/10	Formaldehyde	6.23×10^{1}	6.23×10^{1}	6.11×10^{1}	6.11×10^{1}	10.8	10.8
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J7/
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [signature]

METHOD: GC ✓ HPLC_____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	IF4356.20R	12/22/10	Formaldehyde	10010.00	8858.19	8858.19	11.5	11.5
	IF4356.31R	12/23/10	↓	↓	8774.58	8774.58	12.3	12.3
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25305071

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer:

METHOD: ~~GC~~ __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Butyraldehyde	NS	1986	3932.687 / 2	~~108~~ 99	99	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 25337J7/
SDG #: all cases

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F
2nd Reviewer: A

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
Formaldehyde	5010	NA	5000	NA	100	100	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J7
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #2 Compound Name Formaldehyde

Concentration = $\frac{(190978)(200000)(0.1)}{(6.11 \times 10^{1})(20)(0.833)(1000)}$

= 3752 ng/kg

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: [illegible]

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 14, 2010

LDC Report Date: May 13, 2011

Matrix: Sediment

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE039

Sample Identification

SED-024SIV-SD-0.0-0.5
SED-024SIV-SD-0.0-0.5MS
SED-024SIV-SD-0.0-0.5MSD

Introduction

This data review covers 3 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance check is not required by the method.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 .

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 50.0% for perchlorate.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogate spikes were not required by the method.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE039	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

Santa Susana Field Laboratory
Perchlorate - Data Qualification Summary - SDG DE039

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE039	SED-024SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE039

No Sample Data Qualified in this SDG

LDC #: 25337J87 **VALIDATION COMPLETENESS WORKSHEET** Date: 5/11/11
SDG #: DE039 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FT
2nd Reviewer:

METHOD: LC/MS Perchlorate (EPA SW846 Method 6850)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/14/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	r^2
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 15/50 LODV ≤ 50
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	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: Sediment

1	SED-024-SIV-SD-0.0-0.5	11	PBLK20350	21		31	
2	#1 MS	12		22		32	
3	#1 MSD	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 25337J87

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

2nd Reviewer: A

6850

Method: ~~Semivolatiles (EPA SW 846 Method 8270C)~~

Validation Area	Yes	No	NA	Findings/Comments
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?			✓	
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			✓	
Were all percent differences (%D) ~~≤ 25%~~ 15 + 50 and relative response factors (RRF) ≥ 0.05?	✓			
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Were all surrogate %R within QC limits?			✓	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
Was an LCS analyzed for this SDG?	✓			

LDC #: 25337J87

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: a

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?			✓	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?			✓	
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?			✓	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC # 25337187
SDG# see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: EF
2nd Reviewer:

METHOD: Method 6850

Parameter: perchlorate

Date	Column	Compound	y	x	
12/10/2010	LCMS	perchlorate	0.0252	0.020	
			0.0533	0.040	
			0.1221	0.100	
			0.2514	0.200	
			0.4626	0.400	
			1.1661	1.000	
			2.8475	2.500	

Regression Output:		Regression Output:	Reported	
Constant		0.01217		1.2200E-003
Std Err of Y Est		0.01119		
R Squared		0.99990		0.99999
No. of Observations		7.00000		
Degrees of Freedom		5.00000		
X Coefficient(s)	1.137E+000		0.11370	
Std Err of Coef.	0.005072	0.04		

LDC #: 25337087

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

6850

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270C)~~

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_s)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ms5p3551001C	12/22/10	~~Phenol~~ (1st internal standard) Perchlorate	4	3.92		2	2
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
2	ms5p3561002J	12/22/10	~~Phenol~~ Perchlorate (1st internal standard)	0.4	0.337	0.337	16	16
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J87

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

6850

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 2 + 3

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene											
Pentachlorophenol											
Pyrene											
Perchlorate	100	100	ND	110	110	100	100	100	100	0	0

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J8/

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

6850

METHOD: ~~GC/MS BNA (EPA SW-846 Method 8270)~~

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene										
Pentachlorophenol										
Pyrene										
Perchlorate	100	NA	99	NA	99	99	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25337J87
6850

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: A

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. _____, _____:

Conc. = $\frac{(\quad)(\quad)(\quad)(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)(\quad)(\quad)}$

= ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DE040

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3050B	6010B	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3050B	6020	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3060A	7199	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8081A	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8082	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8151A	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8270C	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	3550B	8270C SIM	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	Gen Prep	314.0	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	Gen Prep	9045M	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	METHOD	300.0	III
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166079	N	METHOD	7471A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3050B	6010B	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3060A	7199	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8081A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8082	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8151A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8270C	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	3550B	8270C SIM	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	Gen Prep	314.0	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	Gen Prep	9045M	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	METHOD	300.0	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166075	N	METHOD	7471A	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3050B	6010B	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3060A	7199	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8081A	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8082	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8151A	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8270C	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	3550B	8270C SIM	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	Gen Prep	314.0	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	Gen Prep	9045M	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	METHOD	300.0	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166078	N	METHOD	7471A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248A	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248B	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248C	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5DUP	P166075D221248D	DUP	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254A	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254B	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254C	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M221254D	MSD	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MSD	P166075M240247A	MSD	3550B	8081A	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251A	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251B	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251C	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R221251D	MS	3050B	6020	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5MS	P166075R240233A	MS	3550B	8081A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3060A	7199	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8081A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8082	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8151A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8270C	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	3550B	8270C SIM	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	Gen Prep	314.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	Gen Prep	9045M	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	METHOD	300.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166074	N	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D220551	DUP	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D221246	DUP	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D221340	DUP	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D270225A	DUP	Gen Prep	314.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D272253A	DUP	METHOD	300.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5DUP	P166074D291330A	DUP	Gen Prep	9045M	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M220554	MSD	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M221254	MSD	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M221347	MSD	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M241230A	MSD	3550B	8151A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M241550A	MSD	3550B	8082	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M260917	MSD	3550B	8270C SIM	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MSD	P166074M261819	MSD	3550B	8270C	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R220552	MS	METHOD	7471A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R221250	MS	3050B	6010B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R221344	MS	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R241203A	MS	3550B	8151A	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R241531A	MS	3550B	8082	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R260844	MS	3550B	8270C SIM	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R261744	MS	3550B	8270C	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R270249A	MS	Gen Prep	314.0	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5MS	P166074R272308A	MS	METHOD	300.0	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3050B	6010B	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3050B	6020	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3060A	7199	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8081A	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8082	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8151A	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8270C	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	3550B	8270C SIM	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	Gen Prep	314.0	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	Gen Prep	9045M	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	METHOD	300.0	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	METHOD	6850	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166077	N	METHOD	7471A	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3050B	6010B	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3050B	6020	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3060A	7199	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8081A	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8082	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8151A	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8270C	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
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	3550B	8270C SIM	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	Gen Prep	314.0	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	Gen Prep	9045M	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	METHOD	300.0	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166076	N	METHOD	7471A	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3050B	6010B	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3050B	6020	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3060A	7199	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8081A	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8082	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8151A	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8270C	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	3550B	8270C SIM	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	Gen Prep	314.0	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	Gen Prep	9045M	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	METHOD	300.0	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166080	N	METHOD	7471A	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3050B	6010B	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3050B	6020	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3060A	7199	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8081A	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8082	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8151A	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8270C	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	3550B	8270C SIM	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	Gen Prep	314.0	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
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	Gen Prep	9045M	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	METHOD	300.0	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166091	N	METHOD	7471A	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3050B	6010B	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3050B	6020	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3060A	7199	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8081A	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8082	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8151A	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8270C	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	3550B	8270C SIM	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	Gen Prep	314.0	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	Gen Prep	9045M	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	METHOD	300.0	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166086	N	METHOD	7471A	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3050B	6010B	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3050B	6020	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3060A	7199	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8081A	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8082	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8151A	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8270C	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	3550B	8270C SIM	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	Gen Prep	314.0	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	Gen Prep	9045M	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	METHOD	300.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166082	N	METHOD	7471A	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3050B	6010B	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3050B	6020	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3060A	7199	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8081A	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8082	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8151A	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8270C	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	3550B	8270C SIM	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	Gen Prep	314.0	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	Gen Prep	9045M	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	METHOD	300.0	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166084	N	METHOD	7471A	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3050B	6010B	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3050B	6020	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3060A	7199	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8081A	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8082	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8151A	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8270C	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	3550B	8270C SIM	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	Gen Prep	314.0	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	Gen Prep	9045M	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	METHOD	300.0	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166089	N	METHOD	7471A	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3050B	6010B	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
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3050B	6020	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3060A	7199	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8081A	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8082	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8151A	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8270C	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	3550B	8270C SIM	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	Gen Prep	314.0	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	Gen Prep	9045M	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	METHOD	300.0	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166083	N	METHOD	7471A	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3050B	6010B	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3050B	6020	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3060A	7199	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8081A	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8082	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8151A	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8270C	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	3550B	8270C SIM	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	Gen Prep	314.0	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	Gen Prep	9045M	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	METHOD	300.0	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166090	N	METHOD	7471A	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3050B	6010B	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3050B	6020	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3060A	7199	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
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8081A	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8082	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8151A	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8270C	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	3550B	8270C SIM	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	Gen Prep	314.0	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	Gen Prep	9045M	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	METHOD	300.0	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	METHOD	6850	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166087	N	METHOD	7471A	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3050B	6010B	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3050B	6020	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3060A	7199	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8081A	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8082	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8151A	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8270C	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	3550B	8270C SIM	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	Gen Prep	314.0	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	Gen Prep	9045M	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	METHOD	300.0	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166088	N	METHOD	7471A	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3050B	6010B	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3050B	6020	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3060A	7199	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	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
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8082	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8151A	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8270C	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	3550B	8270C SIM	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	Gen Prep	314.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	Gen Prep	9045M	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	METHOD	300.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166085	N	METHOD	7471A	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5DUP	P166085D270212B	DUP	METHOD	300.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5DUP	P166085D270737B	DUP	Gen Prep	314.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5MS	P166085R270226B	MS	METHOD	300.0	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5MS	P166085R270801B	MS	Gen Prep	314.0	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3050B	6010B	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3050B	6020	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3060A	7199	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8081A	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8082	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8151A	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8270C	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	3550B	8270C SIM	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	Gen Prep	314.0	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	Gen Prep	9045M	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	METHOD	300.0	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166092	N	METHOD	7471A	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5DUP	P166092D271357A	DUP	3060A	7199	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5MS	P166092R271432A	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.0	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.30	J	0.993	MDL	5.58	PQL	mg/Kg	J	Z
IRON	19300		5.26	MDL	22.3	PQL	mg/Kg	J	E
POTASSIUM	2780		20.1	MDL	55.8	PQL	mg/Kg	J	Q
SODIUM	89.4	J	41.6	MDL	112	PQL	mg/Kg	J	Z

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2450		6.84	MDL	22.3	PQL	mg/Kg	J	A
LITHIUM	22.0		0.25	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4220		2.83	MDL	11.2	PQL	mg/Kg	J	A
MANGANESE	260		0.0871	MDL	0.558	PQL	mg/Kg	J	E, E
PHOSPHORUS	299		0.625	MDL	11.2	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.0		0.0692	MDL	0.558	PQL	mg/Kg	J	E
TIN	2.59	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.938	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20100		5.18	MDL	22.0	PQL	mg/Kg	J	E
POTASSIUM	3880		19.8	MDL	54.9	PQL	mg/Kg	J	Q
SODIUM	71.2	J	41.0	MDL	110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3310		6.74	MDL	22.0	PQL	mg/Kg	J	A
LITHIUM	27.1		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4410		2.79	MDL	11.0	PQL	mg/Kg	J	A
MANGANESE	306		0.0857	MDL	0.549	PQL	mg/Kg	J	E, E
PHOSPHORUS	394		0.615	MDL	11.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.8		0.0681	MDL	0.549	PQL	mg/Kg	J	E
TIN	2.55	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.923	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.56	J	0.919	MDL	5.17	PQL	mg/Kg	J	Z
IRON	16900		4.87	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2920		18.6	MDL	51.7	PQL	mg/Kg	J	Q
SODIUM	63.5	J	38.5	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1820		6.33	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	19.8		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3980		2.62	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	239		0.0806	MDL	0.517	PQL	mg/Kg	J	E, E
PHOSPHORUS	324		0.579	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	7.16		0.0641	MDL	0.517	PQL	mg/Kg	J	E
TIN	2.17	J	1.03	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22500		4.71	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3720		18.0	MDL	50.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3180		6.13	MDL	20.0	PQL	mg/Kg	J	A
LITHIUM	20.8		0.22	MDL	2.0	PQL	mg/Kg	J	E
MAGNESIUM	4620		2.54	MDL	10.0	PQL	mg/Kg	J	A
MANGANESE	331		0.0780	MDL	0.500	PQL	mg/Kg	J	E, E
PHOSPHORUS	422		0.560	MDL	10.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	20.3		0.0620	MDL	0.500	PQL	mg/Kg	J	E
TIN	2.49	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.840	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20200		5.15	MDL	21.9	PQL	mg/Kg	J	E
POTASSIUM	2520		19.7	MDL	54.7	PQL	mg/Kg	J	Q

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3050		6.70	MDL	21.9	PQL	mg/Kg	J	A
LITHIUM	15.5		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	3690		2.78	MDL	10.9	PQL	mg/Kg	J	A
MANGANESE	219		0.0853	MDL	0.547	PQL	mg/Kg	J	E, E
PHOSPHORUS	399		0.612	MDL	10.9	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	26.7		0.0678	MDL	0.547	PQL	mg/Kg	J	E
TIN	2.60	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.36	J	0.918	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18700		5.00	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2550		19.1	MDL	53.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3070		6.51	MDL	21.2	PQL	mg/Kg	J	A
LITHIUM	15.8		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3560		2.70	MDL	10.6	PQL	mg/Kg	J	A
MANGANESE	211		0.0829	MDL	0.531	PQL	mg/Kg	J	E, E
PHOSPHORUS	412		0.595	MDL	10.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	20.4		0.0659	MDL	0.531	PQL	mg/Kg	J	E
TIN	2.24	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.96	J	0.918	MDL	5.15	PQL	mg/Kg	J	Z
IRON	19300		4.86	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2550		18.6	MDL	51.5	PQL	mg/Kg	J	Q

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2490		6.32	MDL	20.6	PQL	mg/Kg	J	A
LITHIUM	19.8		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3630		2.62	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	213		0.0804	MDL	0.515	PQL	mg/Kg	J	E, E
PHOSPHORUS	330		0.577	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	15.6		0.0639	MDL	0.515	PQL	mg/Kg	J	E
TIN	2.32	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.866	MDL	5.15	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20800		5.08	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	3280		19.4	MDL	53.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2960		6.61	MDL	21.6	PQL	mg/Kg	J	A
LITHIUM	21.3		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4500		2.74	MDL	10.8	PQL	mg/Kg	J	A
MANGANESE	250		0.0841	MDL	0.539	PQL	mg/Kg	J	E, E
PHOSPHORUS	414		0.604	MDL	10.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	13.8		0.0669	MDL	0.539	PQL	mg/Kg	J	E
TIN	2.56	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.84	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.64	J	0.976	MDL	5.48	PQL	mg/Kg	J	Z
IRON	21400		5.16	MDL	21.9	PQL	mg/Kg	J	E
POTASSIUM	3240		19.7	MDL	54.8	PQL	mg/Kg	J	Q

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4040		6.72	MDL	21.9	PQL	mg/Kg	J	A
LITHIUM	17.1		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4070		2.79	MDL	11.0	PQL	mg/Kg	J	A
MANGANESE	216		0.0855	MDL	0.548	PQL	mg/Kg	J	E, E
PHOSPHORUS	791		0.614	MDL	11.0	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.0		0.0680	MDL	0.548	PQL	mg/Kg	J	E
TIN	2.25	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.921	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22600		4.87	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3020		18.6	MDL	51.7	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-149-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3370		6.34	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	21.9		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4170		2.63	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	294		0.0806	MDL	0.517	PQL	mg/Kg	J	E, E
PHOSPHORUS	382		0.579	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	18.8		0.0641	MDL	0.517	PQL	mg/Kg	J	E
TIN	2.46	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.868	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:10:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25100		4.86	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	3360		18.6	MDL	51.6	PQL	mg/Kg	J	Q

Sample ID: SL-150-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3330		6.33	MDL	20.6	PQL	mg/Kg	J	A
LITHIUM	27.3		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	5180		2.62	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	286		0.0805	MDL	0.516	PQL	mg/Kg	J	E, E
PHOSPHORUS	369		0.578	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	20.1		0.0640	MDL	0.516	PQL	mg/Kg	J	E
TIN	2.89	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.993	J	0.867	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 2:08:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21400		5.22	MDL	22.2	PQL	mg/Kg	J	E
POTASSIUM	3000		19.9	MDL	55.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-153-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 2:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3630		6.79	MDL	22.2	PQL	mg/Kg	J	A
LITHIUM	17.3		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	4110		2.81	MDL	11.1	PQL	mg/Kg	J	A
MANGANESE	274		0.0864	MDL	0.554	PQL	mg/Kg	J	E, E
PHOSPHORUS	336		0.620	MDL	11.1	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	26.8		0.0687	MDL	0.554	PQL	mg/Kg	J	E
TIN	2.54	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.00	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:41:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25700		4.87	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3820		18.6	MDL	51.7	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:41:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3280		6.34	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	24.4		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4760		2.63	MDL	10.3	PQL	mg/Kg	J	A
MANGANESE	331		0.0807	MDL	0.517	PQL	mg/Kg	J	E, E
PHOSPHORUS	483		0.579	MDL	10.3	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.0		0.0641	MDL	0.517	PQL	mg/Kg	J	E
TIN	2.58	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.99	J	0.869	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:32:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22300		5.01	MDL	21.3	PQL	mg/Kg	J	E
POTASSIUM	3620		19.1	MDL	53.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-156-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:32:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3270		6.52	MDL	21.3	PQL	mg/Kg	J	A
LITHIUM	19.5		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4010		2.70	MDL	10.6	PQL	mg/Kg	J	A
MANGANESE	371		0.0830	MDL	0.532	PQL	mg/Kg	J	E, E
PHOSPHORUS	310		0.596	MDL	10.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	22.1		0.0659	MDL	0.532	PQL	mg/Kg	J	E
TIN	2.51	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.60	J	0.893	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:26:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		5.02	MDL	21.3	PQL	mg/Kg	J	E
POTASSIUM	3310		19.2	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	102	J	39.7	MDL	107	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:26:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3150		6.53	MDL	21.3	PQL	mg/Kg	J	A
LITHIUM	17.3		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3340		2.71	MDL	10.7	PQL	mg/Kg	J	A
MANGANESE	327		0.0831	MDL	0.533	PQL	mg/Kg	J	E, E
PHOSPHORUS	258		0.597	MDL	10.7	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.5		0.0661	MDL	0.533	PQL	mg/Kg	J	E
TIN	2.56	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.895	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:00:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23900		4.89	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3940		18.7	MDL	51.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-203-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3520		6.36	MDL	20.7	PQL	mg/Kg	J	A
LITHIUM	21.6		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	4420		2.64	MDL	10.4	PQL	mg/Kg	J	A
MANGANESE	290		0.0809	MDL	0.519	PQL	mg/Kg	J	E, E
PHOSPHORUS	386		0.581	MDL	10.4	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	25.0		0.0643	MDL	0.519	PQL	mg/Kg	J	E
TIN	2.62	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.46	J	0.871	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:51:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.93	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
IRON	21200		5.00	MDL	21.2	PQL	mg/Kg	J	E
POTASSIUM	2590		19.1	MDL	53.1	PQL	mg/Kg	J	Q

Sample ID: SL-204-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:51:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3330		6.51	MDL	21.2	PQL	mg/Kg	J	A
LITHIUM	20.0		0.23	MDL	2.1	PQL	mg/Kg	J	E
MAGNESIUM	3900		2.70	MDL	10.6	PQL	mg/Kg	J	A
MANGANESE	262		0.0828	MDL	0.531	PQL	mg/Kg	J	E, E
PHOSPHORUS	356		0.594	MDL	10.6	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	24.4		0.0658	MDL	0.531	PQL	mg/Kg	J	E
TIN	2.56	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.02	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.19	J	0.960	MDL	5.39	PQL	mg/Kg	J	Z
IRON	20000		5.08	MDL	21.6	PQL	mg/Kg	J	E
POTASSIUM	2670		19.4	MDL	53.9	PQL	mg/Kg	J	Q
SODIUM	89.8	J	40.2	MDL	108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2640		6.61	MDL	21.6	PQL	mg/Kg	J	A
LITHIUM	21.7		0.24	MDL	2.2	PQL	mg/Kg	J	E
MAGNESIUM	3840		2.74	MDL	10.8	PQL	mg/Kg	J	A
MANGANESE	255		0.0841	MDL	0.539	PQL	mg/Kg	J	E, E
PHOSPHORUS	317		0.604	MDL	10.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	14.9		0.0669	MDL	0.539	PQL	mg/Kg	J	E
TIN	3.01	J	1.08	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.26	J	0.906	MDL	5.39	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0957	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *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		0.118	MDL	0.438	PQL	mg/Kg	J	A

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0657	U	0.0657	MDL	0.219	PQL	mg/Kg	UJ	Q
ARSENIC	4.07		0.0657	MDL	0.438	PQL	mg/Kg	J	Q
CHROMIUM	17.9		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	4.65		0.0219	MDL	0.109	PQL	mg/Kg	J	A
LEAD	6.00		0.0114	MDL	0.219	PQL	mg/Kg	J	Q, E, A
NICKEL	10.3		0.109	MDL	0.438	PQL	mg/Kg	J	E, A
SILVER	0.0265	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	32.7		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	62.4		0.613	MDL	3.28	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.1		0.119	MDL	0.440	PQL	mg/Kg	J	A

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0659	U	0.0659	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	4.12		0.0659	MDL	0.440	PQL	mg/Kg	J	Q
CHROMIUM	15.9		0.132	MDL	0.440	PQL	mg/Kg	J	Q, E, A
COBALT	4.39		0.0220	MDL	0.110	PQL	mg/Kg	J	A
LEAD	7.20		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	9.70		0.110	MDL	0.440	PQL	mg/Kg	J	E, A
SILVER	0.0255	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	28.6		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	54.9		0.615	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0924	J	0.0405	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	62.3		0.109	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0608	U	0.0608	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	2.43		0.0608	MDL	0.405	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0800	J	0.0365	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	12.5		0.122	MDL	0.405	PQL	mg/Kg	J	Q, E, A
COBALT	3.62		0.0203	MDL	0.101	PQL	mg/Kg	J	A
LEAD	5.31		0.0105	MDL	0.203	PQL	mg/Kg	J	Q, E, A
NICKEL	6.99		0.101	MDL	0.405	PQL	mg/Kg	J	E, A
SILVER	0.0170	J	0.0122	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	26.8		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A
ZINC	42.6		0.567	MDL	3.04	PQL	mg/Kg	J	E, A

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0420	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0800	J	0.0630	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	4.13		0.0630	MDL	0.420	PQL	mg/Kg	J	Q
CHROMIUM	26.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E, A
COBALT	6.36		0.0210	MDL	0.105	PQL	mg/Kg	J	A
LEAD	18.9		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A
NICKEL	16.6		0.105	MDL	0.420	PQL	mg/Kg	J	E, A
SILVER	0.0671	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	41.0		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	103		0.588	MDL	3.15	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-132-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 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	0.130	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 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	84.9		0.119	MDL	0.442	PQL	mg/Kg	J	A

Sample ID: SL-132-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 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	0.0662	U	0.0662	MDL	0.221	PQL	mg/Kg	UJ	Q
ARSENIC	3.84		0.0662	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.132	MDL	0.442	PQL	mg/Kg	J	Q, E, A
COBALT	5.22		0.0221	MDL	0.110	PQL	mg/Kg	J	A
LEAD	19.8		0.0115	MDL	0.221	PQL	mg/Kg	J	Q, E, A
NICKEL	14.3		0.110	MDL	0.442	PQL	mg/Kg	J	E, A
SILVER	0.109	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	37.2		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	76.6		0.618	MDL	3.31	PQL	mg/Kg	J	E, A

Sample ID: SL-133-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	58.2		0.114	MDL	0.421	PQL	mg/Kg	J	A

Sample ID: SL-133-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0631	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	2.81		0.0631	MDL	0.421	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-133-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	14.1		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	3.76		0.0210	MDL	0.105	PQL	mg/Kg	J	A
LEAD	9.98		0.0109	MDL	0.210	PQL	mg/Kg	J	Q, E, A
NICKEL	11.6		0.105	MDL	0.421	PQL	mg/Kg	J	E, A
SILVER	0.0610	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	30.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	91.5		0.589	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-134-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0408	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.6		0.110	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-134-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0613	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0613	MDL	0.408	PQL	mg/Kg	J	Q
CHROMIUM	28.1		0.123	MDL	0.408	PQL	mg/Kg	J	Q, E, A
COBALT	5.29		0.0204	MDL	0.102	PQL	mg/Kg	J	A
LEAD	13.8		0.0106	MDL	0.204	PQL	mg/Kg	J	Q, E, A
NICKEL	17.6		0.102	MDL	0.408	PQL	mg/Kg	J	E, A
VANADIUM	37.0		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A
ZINC	66.3		0.572	MDL	3.06	PQL	mg/Kg	J	E, A

Sample ID: SL-135-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 11:13:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0906	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: PrepDE040_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	66.1		0.119	MDL	0.440	PQL	mg/Kg	J	A

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.207	J	0.0660	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	4.00		0.0660	MDL	0.440	PQL	mg/Kg	J	Q
CHROMIUM	16.9		0.132	MDL	0.440	PQL	mg/Kg	J	Q, E, A
COBALT	4.26		0.0220	MDL	0.110	PQL	mg/Kg	J	A
LEAD	80.9		0.0114	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	11.7		0.110	MDL	0.440	PQL	mg/Kg	J	E, A
VANADIUM	29.7		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, A
ZINC	105		0.616	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0426	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	144		0.115	MDL	0.426	PQL	mg/Kg	J	A

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0639	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	4.75		0.0639	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	25.0		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, A
COBALT	5.60		0.0213	MDL	0.106	PQL	mg/Kg	J	A
LEAD	44.6		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, A
NICKEL	14.5		0.106	MDL	0.426	PQL	mg/Kg	J	E, A
VANADIUM	38.4		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	145		0.596	MDL	3.19	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-149-SA5B-SS-0.0-0.5 **Collected:** 12/15/2010 3:50:00 **Analysis Type:** REA **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	289		1.46	MDL	7.83	PQL	mg/Kg	J	E, A

Sample ID: SL-149-SA5B-SS-0.0-0.5 **Collected:** 12/15/2010 3:50:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 **Collected:** 12/15/2010 3:50:00 **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		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-149-SA5B-SS-0.0-0.5 **Collected:** 12/15/2010 3:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0979	J	0.0626	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0626	MDL	0.418	PQL	mg/Kg	J	Q
CHROMIUM	36.3		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E, A
COBALT	6.07		0.0209	MDL	0.104	PQL	mg/Kg	J	A
LEAD	14.4		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	22.3		0.104	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0767	J	0.0125	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.8		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, A

Sample ID: SL-150-SA5B-SS-0.0-0.5 **Collected:** 12/15/2010 3:10:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5 **Collected:** 12/15/2010 3:10:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.5		0.114	MDL	0.421	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-150-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0632	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	5.71		0.0632	MDL	0.421	PQL	mg/Kg	J	Q
CHROMIUM	34.9		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	6.56		0.0211	MDL	0.105	PQL	mg/Kg	J	A
LEAD	18.1		0.0109	MDL	0.211	PQL	mg/Kg	J	Q, E, A
NICKEL	21.9		0.105	MDL	0.421	PQL	mg/Kg	J	E, A
SILVER	0.0714	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	43.8		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	91.7		0.589	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-153-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 2:08:00 *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	0.0452	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 2:08:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.2		0.122	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-153-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 2:08:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0678	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	4.42		0.0678	MDL	0.452	PQL	mg/Kg	J	Q
CHROMIUM	25.1		0.136	MDL	0.452	PQL	mg/Kg	J	Q, E, A
COBALT	6.13		0.0226	MDL	0.113	PQL	mg/Kg	J	A
LEAD	32.4		0.0117	MDL	0.226	PQL	mg/Kg	J	Q, E, A
NICKEL	16.0		0.113	MDL	0.452	PQL	mg/Kg	J	E, A
SILVER	0.108	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	41.9		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A
ZINC	84.1		0.633	MDL	3.39	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0925	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.6		0.111	MDL	0.410	PQL	mg/Kg	J	A

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *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	0.0615	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.13		0.0615	MDL	0.410	PQL	mg/Kg	J	Q
CHROMIUM	22.3		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	4.68		0.0205	MDL	0.102	PQL	mg/Kg	J	A
LEAD	6.90		0.0107	MDL	0.205	PQL	mg/Kg	J	Q, E, A
NICKEL	13.3		0.102	MDL	0.410	PQL	mg/Kg	J	E, A
SILVER	0.0459	J	0.0123	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	32.0		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, A
ZINC	50.5		0.574	MDL	3.07	PQL	mg/Kg	J	E, A

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0985	J	0.0425	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.7		0.115	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0638	MDL	0.213	PQL	mg/Kg	J	Z, Q
ARSENIC	4.15		0.0638	MDL	0.425	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	25.9		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
COBALT	5.49		0.0213	MDL	0.106	PQL	mg/Kg	J	A
LEAD	43.0		0.0111	MDL	0.213	PQL	mg/Kg	J	Q, E, A
NICKEL	14.6		0.106	MDL	0.425	PQL	mg/Kg	J	E, A
VANADIUM	35.9		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A
ZINC	69.1		0.596	MDL	3.19	PQL	mg/Kg	J	E, A

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.175	J	0.0627	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	5.38		0.0627	MDL	0.418	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E, A
COBALT	6.23		0.0209	MDL	0.105	PQL	mg/Kg	J	A
LEAD	12.8		0.0109	MDL	0.209	PQL	mg/Kg	J	Q, E, A
NICKEL	15.1		0.105	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0727	J	0.0125	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	40.9		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A
ZINC	58.8		0.585	MDL	3.14	PQL	mg/Kg	J	E, A

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0427	MDL	0.427	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: PrepDE040_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.115	MDL	0.427	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0641	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	6.13		0.0641	MDL	0.427	PQL	mg/Kg	J	Q
CHROMIUM	25.7		0.128	MDL	0.427	PQL	mg/Kg	J	Q, E, A
COBALT	6.21		0.0214	MDL	0.107	PQL	mg/Kg	J	A
LEAD	8.50		0.0111	MDL	0.214	PQL	mg/Kg	J	Q, E, A
NICKEL	15.4		0.107	MDL	0.427	PQL	mg/Kg	J	E, A
SILVER	0.0325	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	40.9		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, A
ZINC	61.8		0.598	MDL	3.20	PQL	mg/Kg	J	E, A

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.9		0.111	MDL	0.412	PQL	mg/Kg	J	A

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0824	J	0.0618	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.59		0.0618	MDL	0.412	PQL	mg/Kg	J	Q
CHROMIUM	18.5		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E, A
COBALT	5.99		0.0206	MDL	0.103	PQL	mg/Kg	J	A
LEAD	7.61		0.0107	MDL	0.206	PQL	mg/Kg	J	Q, E, A
NICKEL	11.7		0.103	MDL	0.412	PQL	mg/Kg	J	E, A
SILVER	0.0326	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	32.6		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A
ZINC	60.7		0.577	MDL	3.09	PQL	mg/Kg	J	E, A

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0807	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.0		0.118	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0654	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	4.80		0.0654	MDL	0.436	PQL	mg/Kg	J	Q
CHROMIUM	19.3		0.131	MDL	0.436	PQL	mg/Kg	J	Q, E, A
COBALT	5.17		0.0218	MDL	0.109	PQL	mg/Kg	J	A
LEAD	16.9		0.0113	MDL	0.218	PQL	mg/Kg	J	Q, E, A
NICKEL	11.8		0.109	MDL	0.436	PQL	mg/Kg	J	E, A
VANADIUM	33.8		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A
ZINC	81.0		0.610	MDL	3.27	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.81	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 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	0.73	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.82	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.63	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0469	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0097	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0421	J	0.0028	MDL	0.0984	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0181	J	0.0029	MDL	0.0999	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0387	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0199	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: PrepDE040_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-150-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0135	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 2:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0513	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0084	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0880	J	0.0030	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0128	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0451	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0060	J	0.0028	MDL	0.0994	PQL	mg/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0062	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	L

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.078	J	0.040	MDL	0.18	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	UJ	L
HEPTACHLOR	0.12	J	0.067	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
4,4'-DDE	0.18	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.62		0.070	MDL	0.36	PQL	ug/Kg	J	S
ALDRIN	0.070	U	0.070	MDL	0.17	PQL	ug/Kg	R	S
ALPHA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.16	U	0.16	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	0.84	U	0.84	MDL	3.6	PQL	ug/Kg	R	S
DELTA-BHC	0.81		0.038	MDL	0.17	PQL	ug/Kg	J	S
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	1.3		0.036	MDL	0.17	PQL	ug/Kg	J	S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	R	S
METHOXYCHLOR	0.36	U	0.36	MDL	1.7	PQL	ug/Kg	R	S
MIREX	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	R	S

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	1.7	U	1.7	MDL	8.8	PQL	ug/Kg	UJ	L

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 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
HEPTACHLOR	0.36	J	0.31	MDL	0.86	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	1.4	U	1.4	MDL	7.3	PQL	ug/Kg	UJ	L

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.073	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.054	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.18	U	0.18	MDL	0.36	PQL	ug/Kg	UJ	L

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.73	U	0.73	MDL	3.8	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.87	J	0.38	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	L

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.19	U	0.19	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	0.25	U	0.25	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDT	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	S
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.84	U	0.84	MDL	3.5	PQL	ug/Kg	UJ	S
DELTA-BHC	0.038	U	0.038	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.85	U	0.85	MDL	0.85	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	L, S
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN	0.11	U	0.11	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.19	U	0.19	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.12	U	0.12	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.069	U	0.069	MDL	0.35	PQL	ug/Kg	UJ	S
TOXAPHENE	2.3	U	2.3	MDL	6.9	PQL	ug/Kg	UJ	S

Sample ID: SL-150-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.078	J	0.063	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.059	J	0.038	MDL	0.17	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-153-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 2:08:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.12	U	0.12	MDL	0.39	PQL	ug/Kg	UJ	L

Sample ID: SL-155-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:41:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.098	U	0.098	MDL	0.36	PQL	ug/Kg	UJ	L
ENDRIN	0.10	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:32:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	1.4	U	1.4	MDL	7.3	PQL	ug/Kg	UJ	L

Sample ID: SL-181-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:26:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.045	J	0.039	MDL	0.18	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	L

Sample ID: SL-203-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.0	U	1.0	MDL	1.0	PQL	ug/Kg	R	S
4,4'-DDE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
4,4'-DDT	1.1	U	1.1	MDL	1.1	PQL	ug/Kg	R	S
ALDRIN	0.072	U	0.072	MDL	0.18	PQL	ug/Kg	R	S
ALPHA-BHC	0.056	U	0.056	MDL	0.18	PQL	ug/Kg	R	S
Chlordane	0.87	U	0.87	MDL	3.7	PQL	ug/Kg	R	S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	R	S
DIELDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
ENDOSULFAN I	0.048	U	0.048	MDL	0.18	PQL	ug/Kg	R	S
ENDOSULFAN II	0.17	U	0.17	MDL	0.37	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
ENDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	1.6	U	1.6	MDL	1.6	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.17	U	0.17	MDL	0.37	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.059	U	0.059	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR	0.21	U	0.21	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	R	S
MIREX	2.2	U	2.2	MDL	2.2	PQL	ug/Kg	R	S
TOXAPHENE	2.4	U	2.4	MDL	7.2	PQL	ug/Kg	R	S

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.056	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	UJ	L
HEPTACHLOR	0.17	J	0.067	MDL	0.18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *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 1254	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.3	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	17		0.69	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	9.4		0.69	MDL	3.6	PQL	ug/Kg	J	S

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	17	J	11	MDL	37	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	9.7	J	3.7	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	3.0		0.34	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5460	5.0		1.0	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-153-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 2:08:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	26		0.76	MDL	3.9	PQL	ug/Kg	J	S
AROCLOR 1260	38		0.76	MDL	3.9	PQL	ug/Kg	J	S

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *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	3.5		0.34	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	1.8		0.34	MDL	1.8	PQL	ug/Kg	J	S

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *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 1248	1.1	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.67	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L
MCPP	200	J	83	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	7.2		0.70	MDL	1.9	PQL	ug/Kg	J	Q
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L
MCPA	180	J	86	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L
MCPA	170	J	80	MDL	260	PQL	ug/Kg	J	Z
MCPP	200	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.60	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.14	J	0.090	MDL	0.19	PQL	ug/Kg	J	Z
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L
MCPP	110	J	82	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-150-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-153-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 2:08:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-155-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:41:00 ***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	0.15	J	0.086	MDL	0.18	PQL	ug/Kg	J	Z
DICAMBA	0.48	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	1.2	J	0.84	MDL	1.8	PQL	ug/Kg	J	Z, L
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-156-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:32:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.2	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DICAMBA	0.80	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	0.97	J	0.86	MDL	1.8	PQL	ug/Kg	J	Z, L
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-181-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:26:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-203-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	3.7	J	1.3	MDL	3.9	PQL	ug/Kg	J	Z
DICAMBA	0.47	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DICHLOROPROP	22		0.87	MDL	1.9	PQL	ug/Kg	J	L
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: PrepDE040_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	17	U	17	MDL	51	PQL	ug/Kg	R	L

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *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: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *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	24	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *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	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *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	35	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	3800	U	3800	MDL	11000	PQL	ug/Kg	R	Q
ANILINE	940	U	940	MDL	2800	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	6600	U	6600	MDL	19000	PQL	ug/Kg	R	Q
HEXACHLOROCYCLOPENTADIENE	940	U	940	MDL	2800	PQL	ug/Kg	R	Q

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	71	J	19	MDL	190	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	67	J	19	MDL	190	PQL	ug/Kg	J	Z
ANTHRACENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	85	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	73	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	92	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	46	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	44	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZOIC ACID	490	J	190	MDL	560	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	300	J	19	MDL	370	PQL	ug/Kg	J	Z
CHRYSENE	110	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZOFURAN	50	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	36	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENOL	20	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	170	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *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	170	J	17	MDL	350	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: PrepDE040_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-150-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:10:00 *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	48	J	18	MDL	350	PQL	ug/Kg	J	Z
FLUORANTHENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 2:08:00 *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	19	J	19	MDL	190	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	51	J	19	MDL	380	PQL	ug/Kg	J	Z
Di-n-butylphthalate	23	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *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	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	30	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	26	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	26	J	19	MDL	190	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: PrepDE040_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	40	J	19	MDL	370	PQL	ug/Kg	J	Z
CHRYSENE	51	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	50	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	51	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	63	J	19	MDL	190	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.65	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *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	0.62	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.95	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.84	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *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	22	J	19	MDL	47	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	24	J	19	MDL	47	PQL	ug/Kg	J	Z
CHRYSENE	29	J	9.4	MDL	47	PQL	ug/Kg	J	Z
FLUORANTHENE	22	J	19	MDL	47	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	25	J	19	MDL	47	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	44	J	36	MDL	89	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	52	J	36	MDL	89	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	39	J	36	MDL	89	PQL	ug/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.81	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.80	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.97	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *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	1.9	J	1.9	MDL	9.3	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.6	J	3.7	MDL	9.3	PQL	ug/Kg	J	Z

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.4	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.8	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.8	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
FLUORANTHENE	8.0	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory:** LL

EDD Filename: PrepDE040_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-136-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	4.4	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z
PYRENE	7.5	J	3.7	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.93	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.91	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.94	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	4.5	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.8	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	6.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.3	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	7.5	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-153-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 2:08:00 ***Analysis Type:*** RES ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	5.0	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	6.4	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	6.1	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.4	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:41:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-155-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *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	1.3	J	0.70	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
FLUORENE	0.92	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.93	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.79	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.94	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	0.78	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.84	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:51:00 *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	4.9	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
CHRYSENE	4.2	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z
FLUORANTHENE	8.2	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
PHENANTHRENE	5.1	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.1	J	1.9	MDL	9.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: PrepDE040_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE040

Method Blank Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35408AB221227	12/29/2010 12:27:00 PM	CALCIUM PHOSPHORUS STRONTIUM TIN	13.6 mg/Kg 2.33 mg/Kg 0.0814 mg/Kg 1.32 mg/Kg	SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5
P35408AB221323	12/30/2010 1:23:00 PM	ALUMINUM IRON	15.3 mg/Kg 5.87 mg/Kg	SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-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
SED-016-SIV-SD-0.0-0.5(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SED-018-SIV-SD-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SED-021-SIV-SD-0.0-0.5(RES)	TIN	2.17 mg/Kg	2.17U mg/Kg
SL-131-SA5B-SS-0.0-0.5(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-132-SA5B-SS-0.0-0.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-133-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-134-SA5B-SS-0.0-0.5(RES)	TIN	2.32 mg/Kg	2.32U mg/Kg
SL-135-SA5B-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-136-SA5B-SS-0.0-0.5(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-149-SA5B-SS-0.0-0.5(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-150-SA5B-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-153-SA5B-SS-0.0-0.5(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-155-SA5B-SS-0.0-0.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-156-SA5B-SS-0.0-0.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-181-SA5B-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-203-SA5B-SS-0.0-0.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-204-SA5B-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-257-SA5B-SS-0.0-0.5(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: DE040_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	AROCLOR 1016	-	172	29.00-146.00	-	AROCLOR 1016, 1221, 1232	J (all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SL-133-SA5B-SS-0.0-0.5)	DIELDRIN	583	621	19.00-154.00	-	DIELDRIN	No Qual Diluted Out
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SL-133-SA5B-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual Diluted Out
	4,4'-DDE	-39337	-29706	18.00-161.00	53 (50.00)	4,4'-DDE	
	4,4'-DDT	-27483	-17011	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	0	0	28.00-154.00	-	ENDOSULFAN II	
	ENDOSULFAN SULFATE	0	398	21.00-160.00	200 (50.00)	ENDOSULFAN SULFATE	
	ENDRIN	0	0	11.00-149.00	-	ENDRIN	
	ENDRIN ALDEHYDE	0	576	10.00-148.00	200 (35.00)	ENDRIN ALDEHYDE	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	gamma-BHC (Lindane)	0	0	10.00-140.00	-	gamma-BHC (Lindane)	
	HEPTACHLOR	0	0	13.00-126.00	-	HEPTACHLOR	
	HEPTACHLOR EPOXIDE	0	0	13.00-157.00	-	HEPTACHLOR EPOXIDE	
	METHOXYCHLOR	227	0	32.00-147.00	200 (50.00)	METHOXYCHLOR	

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MS (SL-132-SA5B-SS-0.0-0.5)	2,4-DB	14	-	20.00-170.00	-	2,4-DB	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: DE040_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-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ARSENIC CHROMIUM VANADIUM	- 143 147	141 134 -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ARSENIC CHROMIUM VANADIUM	J(all detects)
SL-133-SA5B-SS-0.0-0.5MS SL-133-SA5B-SS-0.0-0.5MSD (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ANTIMONY LEAD ZINC	48 323 536	49 - -	75.00-125.00 75.00-125.00 75.00-125.00	- 44 (20.00) 36 (20.00)	ANTIMONY LEAD ZINC	J(all detects) UJ(all non-detects) Zn No Qual %R, >4x
SL-133-SA5B-SS-0.0-0.5MS (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	BARIUM	212	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_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-132-SA5B-SS-0.0-0.5MS	ALUMINUM	933	702	75.00-125.00	-	ALUMINUM	
SL-132-SA5B-SS-0.0-0.5MSD	CALCIUM	214	-	75.00-125.00	-	CALCIUM	
(SED-016-SIV-SD-0.0-0.5	POTASSIUM	137	-	75.00-125.00	-	POTASSIUM	
SED-018-SIV-SD-0.0-0.5	TITANIUM	239	141	75.00-125.00	-	TITANIUM	
SED-021-SIV-SD-0.0-0.5							
SL-131-SA5B-SS-0.0-0.5							
SL-132-SA5B-SS-0.0-0.5							
SL-133-SA5B-SS-0.0-0.5							
SL-134-SA5B-SS-0.0-0.5							
SL-135-SA5B-SS-0.0-0.5							J(all detects)
SL-136-SA5B-SS-0.0-0.5							
SL-149-SA5B-SS-0.0-0.5							Al, Ca, Tl
SL-150-SA5B-SS-0.0-0.5							No Qual, >4x
SL-153-SA5B-SS-0.0-0.5							
SL-155-SA5B-SS-0.0-0.5							
SL-156-SA5B-SS-0.0-0.5							
SL-181-SA5B-SS-0.0-0.5							
SL-203-SA5B-SS-0.0-0.5							
SL-204-SA5B-SS-0.0-0.5							
SL-257-SA5B-SS-0.0-0.5)							
SL-132-SA5B-SS-0.0-0.5MS	IRON	889	-1018	75.00-125.00	-	IRON	
SL-132-SA5B-SS-0.0-0.5MSD	MAGNESIUM	199	-40	75.00-125.00	-	MAGNESIUM	
(SED-016-SIV-SD-0.0-0.5							
SED-018-SIV-SD-0.0-0.5							
SED-021-SIV-SD-0.0-0.5							
SL-131-SA5B-SS-0.0-0.5							
SL-132-SA5B-SS-0.0-0.5							
SL-133-SA5B-SS-0.0-0.5							
SL-134-SA5B-SS-0.0-0.5							
SL-135-SA5B-SS-0.0-0.5							No Qual, >4x
SL-136-SA5B-SS-0.0-0.5							
SL-149-SA5B-SS-0.0-0.5							
SL-150-SA5B-SS-0.0-0.5							
SL-153-SA5B-SS-0.0-0.5							
SL-155-SA5B-SS-0.0-0.5							
SL-156-SA5B-SS-0.0-0.5							
SL-181-SA5B-SS-0.0-0.5							
SL-203-SA5B-SS-0.0-0.5							
SL-204-SA5B-SS-0.0-0.5							
SL-257-SA5B-SS-0.0-0.5)							
SL-132-SA5B-SS-0.0-0.5MS	MANGANESE	193	-	75.00-125.00	21 (20.00)	MANGANESE	
SL-132-SA5B-SS-0.0-0.5MSD	PHOSPHORUS	250	57	75.00-125.00	37 (20.00)	PHOSPHORUS	
(SED-016-SIV-SD-0.0-0.5							
SED-018-SIV-SD-0.0-0.5							
SED-021-SIV-SD-0.0-0.5							
SL-131-SA5B-SS-0.0-0.5							
SL-132-SA5B-SS-0.0-0.5							
SL-133-SA5B-SS-0.0-0.5							
SL-134-SA5B-SS-0.0-0.5							
SL-135-SA5B-SS-0.0-0.5							J(all detects)
SL-136-SA5B-SS-0.0-0.5							UJ(all non-detects)
SL-149-SA5B-SS-0.0-0.5							
SL-150-SA5B-SS-0.0-0.5							Mn No Qual %R, >4x
SL-153-SA5B-SS-0.0-0.5							
SL-155-SA5B-SS-0.0-0.5							
SL-156-SA5B-SS-0.0-0.5							
SL-181-SA5B-SS-0.0-0.5							
SL-203-SA5B-SS-0.0-0.5							
SL-204-SA5B-SS-0.0-0.5							
SL-257-SA5B-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_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-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	2-NITROANILINE	-	132	67.00-125.00	-	2-NITROANILINE	J(all detects)
	3,5-Dimethylphenol	146	150	70.00-130.00	-	3,5-Dimethylphenol	
	BENZOIC ACID	178	175	10.00-173.00	-	BENZOIC ACID	
	BIS(2-CHLOROETHOXY)METHA	-	108	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	
	BIS(2-ETHYLHEXYL)PHTHALAT	132	138	63.00-122.00	-	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	-	142	73.00-134.00	-	Butylbenzylphthalate	
	Di-n-octylphthalate	146	158	56.00-126.00	-	Di-n-octylphthalate	
	ISOPHORONE	-	105	73.00-102.00	-	ISOPHORONE	
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
	ANILINE	0	-	35.00-95.00	200 (30.00)	ANILINE	
	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	
	HEXACHLOROCYCLOPENTADI	0	0	10.00-153.00	-	HEXACHLOROCYCLOPENTAD	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	1-METHYLNAPHTHALENE	177	145	72.00-123.00	-	1-METHYLNAPHTHALENE	No Qual, Diluted Out
	2-METHYLNAPHTHALENE	136	-	28.00-121.00	-	2-METHYLNAPHTHALENE	
	ACENAPHTHENE	127	109	63.00-105.00	-	ACENAPHTHENE	
	ANTHRACENE	138	-	46.00-136.00	-	ANTHRACENE	
	BENZO(A)ANTHRACENE	206	176	39.00-144.00	-	BENZO(A)ANTHRACENE	
	BENZO(B)FLUORANTHENE	188	-	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	CHRYSENE	316	-	29.00-156.00	69 (30.00)	CHRYSENE	
	FLUORANTHENE	924	169	26.00-166.00	125 (30.00)	FLUORANTHENE	
	FLUORENE	125	-	45.00-121.00	-	FLUORENE	
	PHENANTHRENE	515	198	12.00-165.00	47 (30.00)	PHENANTHRENE	
	PYRENE	668	-	15.00-153.00	113 (30.00)	PYRENE	
SL-132-SA5B-SS-0.0-0.5MS SL-132-SA5B-SS-0.0-0.5MSD (SL-132-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	0	0	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
	Butylbenzylphthalate	0	0	73.00-140.00	-	Butylbenzylphthalate	
	Diethylphthalate	0	0	87.00-131.00	-	Diethylphthalate	
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
	Di-n-butylphthalate	0	0	78.00-160.00	-	Di-n-butylphthalate	
	Di-n-octylphthalate	0	0	40.00-192.00	-	Di-n-octylphthalate	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-133-SA5B-SS-0.0-0.5DUP	ANTIMONY	74	20.00	
(SED-016-SIV-SD-0.0-0.5	CHROMIUM	50	20.00	
SED -018-SIV-SD-0.0-0.5	MOLYBDENUM	23	20.00	
SED -021-SIV-SD-0.0-0.5	NICKEL	28	20.00	
SL -131-SA5B-SS-0.0-0.5				
SL -132-SA5B-SS-0.0-0.5				
SL -133-SA5B-SS-0.0-0.5				
SL -134-SA5B-SS-0.0-0.5				
SL -135-SA5B-SS-0.0-0.5				J (all detects)
SL -136-SA5B-SS-0.0-0.5				UJ (all non-detects)
SL -149-SA5B-SS-0.0-0.5				
SL -150-SA5B-SS-0.0-0.5				Sb, Mo No Qual
SL -153-SA5B-SS-0.0-0.5				OK by difference
SL -155-SA5B-SS-0.0-0.5				
SL -156-SA5B-SS-0.0-0.5				
SL -181-SA5B-SS-0.0-0.5				
SL -203-SA5B-SS-0.0-0.5				
SL -204-SA5B-SS-0.0-0.5				
SL -257-SA5B-SS-0.0-0.5)				

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-149-SA5B-SS-0.0-0.5DUP	FLUORIDE	51	20.00	
(SL-136-SA5B-SS-0.0-0.5				
SL -149-SA5B-SS-0.0-0.5				
SL -150-SA5B-SS-0.0-0.5				
SL -156-SA5B-SS-0.0-0.5				No Qual
SL -181-SA5B-SS-0.0-0.5				OK by difference
SL -203-SA5B-SS-0.0-0.5				
SL -204-SA5B-SS-0.0-0.5				
SL -257-SA5B-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-204-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED -018-SIV-SD-0.0-0.5 SED -021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	HEXAVALENT CHROMIUM	99	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-132-SA5B-SS-0.0-0.5DUP (SED-016-SIV-SD-0.0-0.5 SED -018-SIV-SD-0.0-0.5 SED -021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5)	FLUORIDE	200	20.00	No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA5B-SS-0.0-0.5DUP	IRON	31	20.00	
(SED-016-SIV-SD-0.0-0.5	LITHIUM	27	20.00	
SED -018-SIV-SD-0.0-0.5	MANGANESE	44	20.00	
SED -021-SIV-SD-0.0-0.5	STRONTIUM	31	20.00	
SL -131-SA5B-SS-0.0-0.5				
SL -132-SA5B-SS-0.0-0.5				
SL -133-SA5B-SS-0.0-0.5				
SL -134-SA5B-SS-0.0-0.5				
SL -135-SA5B-SS-0.0-0.5				
SL -136-SA5B-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL -149-SA5B-SS-0.0-0.5				
SL -150-SA5B-SS-0.0-0.5				
SL -153-SA5B-SS-0.0-0.5				
SL -155-SA5B-SS-0.0-0.5				
SL -156-SA5B-SS-0.0-0.5				
SL -181-SA5B-SS-0.0-0.5				
SL -203-SA5B-SS-0.0-0.5				
SL -204-SA5B-SS-0.0-0.5				
SL -257-SA5B-SS-0.0-0.5)				

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-132-SA5B-SS-0.0-0.5DUP	MERCURY	200	20.00	
(SED-016-SIV-SD-0.0-0.5				
SED -018-SIV-SD-0.0-0.5				
SED -021-SIV-SD-0.0-0.5				
SL -131-SA5B-SS-0.0-0.5				
SL -132-SA5B-SS-0.0-0.5				
SL -133-SA5B-SS-0.0-0.5				
SL -134-SA5B-SS-0.0-0.5				
SL -135-SA5B-SS-0.0-0.5				
SL -136-SA5B-SS-0.0-0.5				No Qual OK by difference
SL -149-SA5B-SS-0.0-0.5				
SL -150-SA5B-SS-0.0-0.5				
SL -153-SA5B-SS-0.0-0.5				
SL -155-SA5B-SS-0.0-0.5				
SL -156-SA5B-SS-0.0-0.5				
SL -181-SA5B-SS-0.0-0.5				
SL -203-SA5B-SS-0.0-0.5				
SL -204-SA5B-SS-0.0-0.5				
SL -257-SA5B-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: DE040_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03558AQ240137A (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	ENDOSULFAN II	60	-	63.00-127.00	-	ENDOSULFAN II	J (all detects) UJ (all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03614AQ241108A (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	DICHLOROPROP	157	-	60.00-141.00	-	DICHLOROPROP	J(all detects)
P03614AQ241108A (SED-016-SIV-SD-0.0-0.5 SED-018-SIV-SD-0.0-0.5 SED-021-SIV-SD-0.0-0.5 SL-131-SA5B-SS-0.0-0.5 SL-132-SA5B-SS-0.0-0.5 SL-133-SA5B-SS-0.0-0.5 SL-134-SA5B-SS-0.0-0.5 SL-135-SA5B-SS-0.0-0.5 SL-136-SA5B-SS-0.0-0.5 SL-149-SA5B-SS-0.0-0.5 SL-150-SA5B-SS-0.0-0.5 SL-153-SA5B-SS-0.0-0.5 SL-155-SA5B-SS-0.0-0.5 SL-156-SA5B-SS-0.0-0.5 SL-181-SA5B-SS-0.0-0.5 SL-203-SA5B-SS-0.0-0.5 SL-204-SA5B-SS-0.0-0.5 SL-257-SA5B-SS-0.0-0.5)	DINOSEB	7	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE040 Laboratory: LL

EDD Filename: DE040_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*

Surrogate Outlier Report

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-018-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	217	20.00-120.00	All Target Analytes	J (all detects)
SED-021-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-134-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	159	20.00-120.00	All Target Analytes	J(all detects)
SL-135-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-149-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	49	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-203-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-203-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	41	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-204-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	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-133-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	21 17	45.00-120.00 53.00-139.00	All Target Analytes	No Qual Diluted Out
SL-134-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	192 161	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-135-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-149-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	121	45.00-120.00	All Target Analytes	J(all detects)
SL-153-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	188	45.00-120.00	All Target Analytes	J(all detects)
SL-155-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	143 148	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA5B-SS-0.0-0.5	FLUORIDE	J	1.0	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	BORON	J	4.30	5.58	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.4	112	PQL	mg/Kg	
	TIN	J	2.59	11.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.58	PQL	mg/Kg	
SED-018-SIV-SD-0.0-0.5	SODIUM	J	71.2	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	11.0	PQL	mg/Kg	
	Zirconium	J	1.38	5.49	PQL	mg/Kg	
SED-021-SIV-SD-0.0-0.5	BORON	J	3.56	5.17	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.5	103	PQL	mg/Kg	
	TIN	J	2.17	10.3	PQL	mg/Kg	
SL-131-SA5B-SS-0.0-0.5	TIN	J	2.49	10.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.08	5.00	PQL	mg/Kg	
SL-132-SA5B-SS-0.0-0.5	TIN	J	2.60	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.36	5.47	PQL	mg/Kg	
SL-133-SA5B-SS-0.0-0.5	TIN	J	2.24	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.92	5.31	PQL	mg/Kg	
SL-134-SA5B-SS-0.0-0.5	BORON	J	4.96	5.15	PQL	mg/Kg	J (all detects)
	TIN	J	2.32	10.3	PQL	mg/Kg	
	Zirconium	J	1.38	5.15	PQL	mg/Kg	
SL-135-SA5B-SS-0.0-0.5	TIN	J	2.56	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.84	5.39	PQL	mg/Kg	
SL-136-SA5B-SS-0.0-0.5	BORON	J	4.64	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.25	11.0	PQL	mg/Kg	
	Zirconium	J	1.39	5.48	PQL	mg/Kg	
SL-149-SA5B-SS-0.0-0.5	TIN	J	2.46	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.39	5.17	PQL	mg/Kg	
SL-150-SA5B-SS-0.0-0.5	TIN	J	2.89	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.993	5.16	PQL	mg/Kg	
SL-153-SA5B-SS-0.0-0.5	TIN	J	2.54	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.00	5.54	PQL	mg/Kg	
SL-155-SA5B-SS-0.0-0.5	TIN	J	2.58	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.99	5.17	PQL	mg/Kg	
SL-156-SA5B-SS-0.0-0.5	TIN	J	2.51	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.60	5.32	PQL	mg/Kg	
SL-181-SA5B-SS-0.0-0.5	SODIUM	J	102	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.7	PQL	mg/Kg	
	Zirconium	J	2.27	5.33	PQL	mg/Kg	
SL-203-SA5B-SS-0.0-0.5	TIN	J	2.62	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.46	5.19	PQL	mg/Kg	
SL-204-SA5B-SS-0.0-0.5	BORON	J	4.93	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.6	PQL	mg/Kg	
	Zirconium	J	3.02	5.31	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-257-SA5B-SS-0.0-0.5	BORON	J	5.19	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.8	108	PQL	mg/Kg	
	TIN	J	3.01	10.8	PQL	mg/Kg	
	Zirconium	J	1.26	5.39	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	SELENIUM	J	0.0957	0.438	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0265	0.109	PQL	mg/Kg	
SED-018-SIV-SD-0.0-0.5	SELENIUM	J	0.155	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0255	0.110	PQL	mg/Kg	
SED-021-SIV-SD-0.0-0.5	CADMIUM	J	0.0800	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0924	0.405	PQL	mg/Kg	
	SILVER	J	0.0170	0.101	PQL	mg/Kg	
SL-131-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0800	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.420	PQL	mg/Kg	
	SILVER	J	0.0671	0.105	PQL	mg/Kg	
SL-132-SA5B-SS-0.0-0.5	SELENIUM	J	0.130	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.109	0.110	PQL	mg/Kg	
SL-133-SA5B-SS-0.0-0.5	ANTIMONY	J	0.141	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.421	PQL	mg/Kg	
	SILVER	J	0.0610	0.105	PQL	mg/Kg	
SL-134-SA5B-SS-0.0-0.5	ANTIMONY	J	0.118	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.408	PQL	mg/Kg	
SL-135-SA5B-SS-0.0-0.5	ANTIMONY	J	0.207	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0906	0.440	PQL	mg/Kg	
SL-136-SA5B-SS-0.0-0.5	ANTIMONY	J	0.150	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.104	0.426	PQL	mg/Kg	
SL-149-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0979	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.130	0.418	PQL	mg/Kg	
	SILVER	J	0.0767	0.104	PQL	mg/Kg	
SL-150-SA5B-SS-0.0-0.5	ANTIMONY	J	0.139	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.421	PQL	mg/Kg	
	SILVER	J	0.0714	0.105	PQL	mg/Kg	
SL-153-SA5B-SS-0.0-0.5	ANTIMONY	J	0.143	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.452	PQL	mg/Kg	
	SILVER	J	0.108	0.113	PQL	mg/Kg	
SL-155-SA5B-SS-0.0-0.5	ANTIMONY	J	0.148	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0925	0.410	PQL	mg/Kg	
	SILVER	J	0.0459	0.102	PQL	mg/Kg	
SL-156-SA5B-SS-0.0-0.5	ANTIMONY	J	0.115	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0985	0.425	PQL	mg/Kg	
SL-181-SA5B-SS-0.0-0.5	ANTIMONY	J	0.175	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.147	0.418	PQL	mg/Kg	
	SILVER	J	0.0727	0.105	PQL	mg/Kg	
SL-203-SA5B-SS-0.0-0.5	ANTIMONY	J	0.134	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.427	PQL	mg/Kg	
	SILVER	J	0.0325	0.107	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0824	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.412	PQL	mg/Kg	
	SILVER	J	0.0326	0.103	PQL	mg/Kg	
SL-257-SA5B-SS-0.0-0.5	ANTIMONY	J	0.132	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0807	0.436	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.81	1.1	PQL	mg/Kg	J (all detects)
SED-018-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.82	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.0	PQL	mg/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.63	1.1	PQL	mg/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	MERCURY	J	0.0469	0.110	PQL	mg/Kg	J (all detects)
SED-018-SIV-SD-0.0-0.5	MERCURY	J	0.0097	0.108	PQL	mg/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	MERCURY	J	0.0421	0.0984	PQL	mg/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	MERCURY	J	0.0181	0.0999	PQL	mg/Kg	J (all detects)
SL-136-SA5B-SS-0.0-0.5	MERCURY	J	0.0387	0.108	PQL	mg/Kg	J (all detects)
SL-149-SA5B-SS-0.0-0.5	MERCURY	J	0.0199	0.101	PQL	mg/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	MERCURY	J	0.0135	0.104	PQL	mg/Kg	J (all detects)
SL-153-SA5B-SS-0.0-0.5	MERCURY	J	0.0513	0.111	PQL	mg/Kg	J (all detects)
SL-155-SA5B-SS-0.0-0.5	MERCURY	J	0.0084	0.103	PQL	mg/Kg	J (all detects)
SL-156-SA5B-SS-0.0-0.5	MERCURY	J	0.0880	0.103	PQL	mg/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	MERCURY	J	0.0128	0.107	PQL	mg/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	MERCURY	J	0.0451	0.104	PQL	mg/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	MERCURY	J	0.0060	0.0994	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-257-SA5B-SS-0.0-0.5	MERCURY	J	0.0062	0.107	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	DELTA-BHC HEPTACHLOR	J J	0.078 0.12	0.18 0.18	PQL PQL	ug/Kg ug/Kg	J (all detects)
SED-021-SIV-SD-0.0-0.5	4,4'-DDE	J	0.18	0.36	PQL	ug/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	HEPTACHLOR	J	0.36	0.86	PQL	ug/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	ALPHA-BHC DELTA-BHC	J J	0.073 0.054	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-135-SA5B-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.87	1.8	PQL	ug/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	BETA-BHC DELTA-BHC	J J	0.078 0.059	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-155-SA5B-SS-0.0-0.5	ENDRIN	J	0.10	0.36	PQL	ug/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	DELTA-BHC	J	0.045	0.18	PQL	ug/Kg	J (all detects)
SL-257-SA5B-SS-0.0-0.5	ALPHA-BHC HEPTACHLOR	J J	0.056 0.17	0.18 0.18	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	1.1 1.1	1.9 1.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	Aroclor 5460	J	1.3	3.5	PQL	ug/Kg	J (all detects)
SL-135-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	9.7 17	19 37	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.9	3.6	PQL	ug/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	AROCLOR 1248	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-257-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	0.67 3.0	1.9 3.7	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	MCPP	J	200	280	PQL	ug/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	MCPA	J	180	280	PQL	ug/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	MCPA MCPP	J J	170 200	260 260	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA5B-SS-0.0-0.5	DICAMBA	J	0.60	1.3	PQL	ug/Kg	J (all detects)
SL-136-SA5B-SS-0.0-0.5	2,4,5-T	J	0.14	0.19	PQL	ug/Kg	J (all detects)
	MCPP	J	110	270	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	2,4,5-T	J	0.15	0.18	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.48	1.3	PQL	ug/Kg	
	DICHLOROPROP	J	1.2	1.8	PQL	ug/Kg	
SL-156-SA5B-SS-0.0-0.5	2,4-D	J	2.2	3.9	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.80	1.3	PQL	ug/Kg	
	DICHLOROPROP	J	0.97	1.8	PQL	ug/Kg	
SL-203-SA5B-SS-0.0-0.5	2,4-D	J	3.7	3.9	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.47	1.3	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	370	PQL	ug/Kg	J (all detects)
SED-018-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	370	PQL	ug/Kg	J (all detects)
SED-021-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	350	PQL	ug/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	350	PQL	ug/Kg	J (all detects)
SL-134-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	350	PQL	ug/Kg	J (all detects)
SL-135-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	71	190	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	67	190	PQL	ug/Kg	
	ANTHRACENE	J	21	190	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	85	190	PQL	ug/Kg	
	BENZO(A)PYRENE	J	73	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	92	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	46	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	44	190	PQL	ug/Kg	
	BENZOIC ACID	J	490	560	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	300	370	PQL	ug/Kg	
	CHRYSENE	J	110	190	PQL	ug/Kg	
	DIBENZOFURAN	J	50	190	PQL	ug/Kg	
	FLUORANTHENE	J	150	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	190	PQL	ug/Kg	
	PHENOL	J	20	190	PQL	ug/Kg	
	PYRENE	J	170	190	PQL	ug/Kg	
SL-149-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	170	350	PQL	ug/Kg	J (all detects)
SL-150-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	350	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	19	180	PQL	ug/Kg	
	PYRENE	J	22	180	PQL	ug/Kg	
SL-153-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	19	190	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	380	PQL	ug/Kg	
	Di-n-butylphthalate	J	23	190	PQL	ug/Kg	
	FLUORANTHENE	J	20	190	PQL	ug/Kg	
	PYRENE	J	22	190	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	350	PQL	ug/Kg	J (all detects)
SL-203-SA5B-SS-0.0-0.5	CARBAZOLE	J	25	180	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA5B-SS-0.0-0.5	PYRENE	J	19	180	PQL	ug/Kg	J (all detects)
SL-257-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	30	190	PQL	ug/Kg	
	BENZO(A)PYRENE	J	26	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	37	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	26	190	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	40	370	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	51	190	PQL	ug/Kg	
	FLUORANTHENE	J	50	190	PQL	ug/Kg	
	PHENANTHRENE	J	51	190	PQL	ug/Kg	
	PYRENE	J	63	190	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-018-SIV-SD-0.0-0.5	ANTHRACENE	J	0.65	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
SED-021-SIV-SD-0.0-0.5	CHRYSENE	J	0.62	1.8	PQL	ug/Kg	J (all detects)
SL-131-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.95	1.8	PQL	ug/Kg	
	CHRYSENE	J	0.84	1.8	PQL	ug/Kg	J (all detects)
SL-132-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	22	47	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	24	47	PQL	ug/Kg	
	CHRYSENE	J	29	47	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	22	47	PQL	ug/Kg	
	PYRENE	J	25	47	PQL	ug/Kg	
SL-133-SA5B-SS-0.0-0.5	BENZO(A)PYRENE	J	44	89	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	52	89	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	39	89	PQL	ug/Kg	
SL-134-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.81	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.80	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.97	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-135-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	1.9	9.3	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.6	9.3	PQL	ug/Kg	J (all detects)
SL-136-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.4	9.1	PQL	ug/Kg	
	BENZO(A)PYRENE	J	7.8	9.1	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.8	9.1	PQL	ug/Kg	
	FLUORANTHENE	J	8.0	9.1	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	4.4	9.1	PQL	ug/Kg	
	PYRENE	J	7.5	9.1	PQL	ug/Kg	
SL-149-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.93	1.7	PQL	ug/Kg	
	2-METHYLNAPHTHALENE	J	0.91	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.94	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE040 **Laboratory: LL**

EDD Filename: DE040_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-150-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	4.5	8.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.8	8.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	6.6	8.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	7.1	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.3	8.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.1	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	7.5	8.8	PQL	ug/Kg	
SL-153-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	5.0	9.6	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	6.4	9.6	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	6.1	9.6	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.4	9.6	PQL	ug/Kg	
SL-155-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORENE	J	0.92	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
SL-156-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.6	19	PQL	ug/Kg	J (all detects)
SL-181-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.93	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.79	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.94	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.78	1.8	PQL	ug/Kg	
	PYRENE	J	0.84	1.8	PQL	ug/Kg	
SL-203-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	J (all detects)
SL-204-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	4.9	8.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	4.2	8.9	PQL	ug/Kg	
	FLUORANTHENE	J	8.2	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	5.1	8.9	PQL	ug/Kg	
SL-257-SA5B-SS-0.0-0.5	ANTHRACENE	J	4.1	9.3	PQL	ug/Kg	J (all detects)

LDC #: 25550B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/11
SDG #: DE040 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	ICB/CCB hits but no data qualified
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ca, Fe, Mg, Mn, Ti, Ba, Zn >4x)
VII.	Duplicate Sample Analysis	N	D.P (Hg, Sb, Mo <5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SL-132-SA5B-SS-0.0-0.5	11	SL-149-SA5B-SS-0.0-0.5	21	(#1) DUP	31	
2	SL-133-SA5B-SS-0.0-0.5	12	SL-156-SA5B-SS-0.0-0.5	22	(#2) MS	32	
3	SL-131-SA5B-SS-0.0-0.5	13	SL-150-SA5B-SS-0.0-0.5	23	↓ MSD	33	
4	SL-135-SA5B-SS-0.0-0.5	14	SL-181-SA5B-SS-0.0-0.5	24	↓ DP	34	
5	SL-134-SA5B-SS-0.0-0.5	15	SL-136-SA5B-SS-0.0-0.5	25		35	
6	SED-021-SIV-SD-0.0-0.5	16	SL-203-SA5B-SS-0.0-0.5	26		36	
7	SED-018-SIV-SD-0.0-0.5	17	SL-257-SA5B-SS-0.0-0.5	27		37	
8	SED-016-SIV-SD-0.0-0.5	18	SL-204-SA5B-SS-0.0-0.5	28		38	
9	SL-153-SA5B-SS-0.0-0.5	19	(#1) MS	29		39	
10	SL-155-SA5B-SS-0.0-0.5	20	↓ MSD	30		40	

Notes: _____

LDC #: 25550B4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-18		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC:19-21		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
22-24		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE040
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6166075BKG Serial Dilution Lab Sample ID: 6166075L
Batch ID(s): P35426A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.6686	B	1.5000	U	100		MS
Arsenic	75	13.3800		13.8350		3		MS
Barium	137	276.7000		328.7000		19	E	MS
Beryllium	9	1.6640		2.0970	B	26		MS
Cadmium	111	0.6644		0.9000	U	100		MS
Chromium	52	66.8100		78.7500		18	E	MS
Cobalt	59	17.8700		23.2700		30	E	MS
Copper	63	31.4400		40.6050		29		MS
Lead	208	47.4200		55.3000		17	E	MS
Molybdenum	98	1.9930		2.1420	B	7		MS
Nickel	60	55.1300		66.1000		20	E	MS
Selenium	78	0.5951	B	1.0000	U	100		MS
Silver	107	0.2900	B	0.3000	U	100		MS
Thallium	203	0.7003		0.7500	U	100		MS
Vanadium	51	142.9000		190.6000		33	E	MS
Zinc	66	434.8000		527.0000		21	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:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE040
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6166074BKG Serial Dilution Lab Sample ID: 6166074L
Batch ID(s): P35408A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		127688.4100		122024.8000		4		P
Boron		63.5600		105.9000	B	67		P
Calcium		27935.3000		31169.2000		12	E	P
Iron		184659.3800		178491.0500		3		P
Lithium		141.8300		153.3500		8		P
Magnesium		33734.3800		37544.2000		11	E	P
Manganese		2004.3800		2068.7000		3		P
Phosphorus		3645.8900		3572.4500		2		P
Potassium		23040.9300		22485.4000		2		P
Sodium		1181.1500		1865.0000	U	100		P
Strontium		244.3500		237.4500		3		P
Tin		23.8100	B	50.0000	U	100		P
Titanium		10994.1300		11056.6500		1		P
Zirconium		21.5400	B	42.0000	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.

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

DE042

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3050B	6010B	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3050B	6020	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3060A	7199	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8081A	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8082	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8151A	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8270C	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	3550B	8270C SIM	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	Gen Prep	9045M	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	METHOD	300.0	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	METHOD	314.0	III
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167473	N	METHOD	7471A	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3050B	6010B	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3050B	6020	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3060A	7199	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8081A	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8082	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8151A	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8270C	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	3550B	8270C SIM	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	Gen Prep	9045M	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	METHOD	300.0	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	METHOD	314.0	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167478	N	METHOD	7471A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3050B	6010B	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	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
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3060A	7199	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8081A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8082	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8151A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8270C	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	3550B	8270C SIM	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	Gen Prep	9045M	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	METHOD	300.0	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	METHOD	314.0	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167477	N	METHOD	7471A	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5DUP	P167477D270821A	DUP	METHOD	300.0	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5MS	P167477R270836A	MS	METHOD	300.0	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3050B	6010B	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3050B	6020	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3060A	7199	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8081A	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8082	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8151A	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8270C	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	3550B	8270C SIM	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	Gen Prep	9045M	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	METHOD	300.0	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	METHOD	314.0	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167471	N	METHOD	7471A	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3050B	6010B	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3050B	6020	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
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3060A	7199	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8081A	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8082	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8151A	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8270C	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	3550B	8270C SIM	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	Gen Prep	9045M	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	METHOD	300.0	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	METHOD	314.0	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167470	N	METHOD	7471A	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3050B	6010B	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3050B	6020	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3060A	7199	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8081A	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8082	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8151A	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8270C	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	3550B	8270C SIM	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	Gen Prep	9045M	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	METHOD	300.0	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	METHOD	314.0	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167479	N	METHOD	7471A	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3050B	6010B	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3050B	6020	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3060A	7199	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	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
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8082	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8151A	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8270C	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	3550B	8270C SIM	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	Gen Prep	9045M	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	METHOD	300.0	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	METHOD	314.0	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167488	N	METHOD	7471A	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3050B	6010B	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3050B	6020	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3060A	7199	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8081A	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8082	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8151A	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8270C	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	3550B	8270C SIM	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	Gen Prep	9045M	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	METHOD	300.0	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	METHOD	314.0	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167485	N	METHOD	7471A	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3050B	6010B	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3050B	6020	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3060A	7199	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8081A	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8082	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8151A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8270C	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	3550B	8270C SIM	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	Gen Prep	9045M	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	METHOD	300.0	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	METHOD	314.0	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167480	N	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3060A	7199	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8081A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8082	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8151A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8270C	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	3550B	8270C SIM	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	Gen Prep	9045M	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	METHOD	300.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	METHOD	314.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167481	N	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3060A	7199	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8081A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8082	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8151A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8270C	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	3550B	8270C SIM	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
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	METHOD	300.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	METHOD	314.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167482	MS	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8081A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8082	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8151A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8270C	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	3550B	8270C SIM	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167483	MSD	METHOD	7471A	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	3050B	6010B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	3050B	6020	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	3060A	7199	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	Gen Prep	9045M	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	METHOD	300.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	METHOD	314.0	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5DUP	6167484	DUP	METHOD	7471A	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3050B	6010B	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3050B	6020	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3060A	7199	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8081A	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8082	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8151A	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8270C	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	Gen Prep	9045M	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	300.0	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	314.0	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	6850	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167472	N	METHOD	7471A	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3050B	6010B	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3050B	6020	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3060A	7199	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8081A	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8082	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8151A	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8270C	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	3550B	8270C SIM	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	Gen Prep	9045M	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	METHOD	300.0	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	METHOD	314.0	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167476	N	METHOD	7471A	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3050B	6010B	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3050B	6020	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3060A	7199	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8081A	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8082	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8151A	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8270C	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	3550B	8270C SIM	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	METHOD	300.0	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	METHOD	314.0	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167487	N	METHOD	7471A	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3050B	6010B	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3050B	6020	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3060A	7199	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8081A	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8082	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8151A	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8270C	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	3550B	8270C SIM	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	Gen Prep	9045M	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	METHOD	300.0	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	METHOD	314.0	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167489	N	METHOD	7471A	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3050B	6010B	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3050B	6020	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3060A	7199	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8081A	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8082	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8151A	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8270C	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	3550B	8270C SIM	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	Gen Prep	9045M	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	METHOD	300.0	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167474	N	METHOD	7471A	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3050B	6010B	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3050B	6020	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3060A	7199	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8081A	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8082	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8151A	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8270C	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	3550B	8270C SIM	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	Gen Prep	9045M	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	METHOD	300.0	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	METHOD	314.0	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167486	N	METHOD	7471A	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3050B	6010B	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3050B	6020	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3060A	7199	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8081A	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8082	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8151A	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8270C	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	3550B	8270C SIM	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	Gen Prep	9045M	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	METHOD	300.0	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	METHOD	314.0	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167475	N	METHOD	7471A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	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
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3050B	6020	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3060A	7199	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8081A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8082	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8151A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8270C	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	3550B	8270C SIM	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	Gen Prep	9045M	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	300.0	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	314.0	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	6850	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167468	N	METHOD	7471A	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5DUP	P167468D272251A	DUP	METHOD	314.0	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5DUP	P167468D291400A	DUP	Gen Prep	9045M	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5MSD	P167468M241548A	MSD	METHOD	6850	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5MS	P167468R241542A	MS	METHOD	6850	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5MS	P167468R272314A	MS	METHOD	314.0	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3050B	6010B	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3050B	6020	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3060A	7199	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8081A	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8082	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8151A	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8270C	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	3550B	8270C SIM	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	METHOD	300.0	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	METHOD	314.0	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167490	N	METHOD	7471A	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3050B	6010B	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3050B	6020	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3060A	7199	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8081A	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8082	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8151A	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8270C	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	3550B	8270C SIM	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	Gen Prep	9045M	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	METHOD	300.0	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	N	METHOD	314.0	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167469	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: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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	1.6		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-189-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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	2.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	23.4		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	457		0.605	MDL	10.8	PQL	mg/Kg	J	Q
POTASSIUM	3370		19.5	MDL	54.0	PQL	mg/Kg	J	Q
SODIUM	75.3	J	40.3	MDL	108	PQL	mg/Kg	J	Z
TIN	2.50	J	1.08	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.43	J	1.02	MDL	5.75	PQL	mg/Kg	J	Z
LITHIUM	32.2		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	449		0.644	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	4530		20.7	MDL	57.5	PQL	mg/Kg	J	Q
SODIUM	112	J	42.9	MDL	115	PQL	mg/Kg	J	Z
TIN	2.83	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-017-SIV-SD-0.0-0.5 ***Collected:*** 12/16/2010 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
LITHIUM	22.2		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	475		0.620	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3590		19.9	MDL	55.4	PQL	mg/Kg	J	Q
SODIUM	79.4	J	41.3	MDL	111	PQL	mg/Kg	J	Z
TIN	2.51	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.45	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5 ***Collected:*** 12/16/2010 9:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	6.31	J	1.15	MDL	6.48	PQL	mg/Kg	J	Z
LITHIUM	26.8		0.29	MDL	2.6	PQL	mg/Kg	J	A
PHOSPHORUS	707		0.726	MDL	13.0	PQL	mg/Kg	J	Q
POTASSIUM	3540		23.3	MDL	64.8	PQL	mg/Kg	J	Q
TIN	3.05	J	1.30	MDL	13.0	PQL	mg/Kg	U	B
Zirconium	1.15	J	1.09	MDL	6.48	PQL	mg/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5 ***Collected:*** 12/16/2010 11:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.88	J	0.948	MDL	5.33	PQL	mg/Kg	J	Z
LITHIUM	22.5		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	310		0.597	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2480		19.2	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	60.8	J	39.7	MDL	107	PQL	mg/Kg	J	Z
TIN	2.28	J	1.07	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-147-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 8:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.18	J	1.02	MDL	5.72	PQL	mg/Kg	J	Z
LITHIUM	21.8		0.25	MDL	2.3	PQL	mg/Kg	J	A
PHOSPHORUS	420		0.641	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2620		20.6	MDL	57.2	PQL	mg/Kg	J	Q
TIN	2.28	J	1.14	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.47	J	0.961	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	22.7		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	444		0.616	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3530		19.8	MDL	55.0	PQL	mg/Kg	J	Q
SODIUM	105	J	41.1	MDL	110	PQL	mg/Kg	J	Z
TIN	2.79	J	1.10	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.96	J	0.925	MDL	5.50	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
LITHIUM	18.7		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	309		0.593	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	3250		19.1	MDL	53.0	PQL	mg/Kg	J	Q
SODIUM	72.7	J	39.5	MDL	106	PQL	mg/Kg	J	Z
TIN	2.29	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.11	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.94	J	0.921	MDL	5.18	PQL	mg/Kg	J	Z
LITHIUM	18.9		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	290		0.580	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	3340		18.6	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	79.3	J	38.6	MDL	104	PQL	mg/Kg	J	Z
TIN	2.36	J	1.04	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.53	J	0.869	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
BORON	3.62	J	0.891	MDL	5.01	PQL	mg/Kg	J	Z
LITHIUM	13.7		0.22	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	522		0.561	MDL	10.0	PQL	mg/Kg	J	Q
POTASSIUM	3470		18.0	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.12	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.27	J	0.841	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.32	J	1.11	MDL	6.23	PQL	mg/Kg	J	Z
LITHIUM	27.2		0.27	MDL	2.5	PQL	mg/Kg	J	A
PHOSPHORUS	500		0.698	MDL	12.5	PQL	mg/Kg	J	Q
POTASSIUM	3930		22.4	MDL	62.3	PQL	mg/Kg	J	Q
TIN	3.39	J	1.25	MDL	12.5	PQL	mg/Kg	U	B
Zirconium	1.36	J	1.05	MDL	6.23	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.937	MDL	5.27	PQL	mg/Kg	J	Z
LITHIUM	24.6		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	273		0.590	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2940		19.0	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	104	J	39.3	MDL	105	PQL	mg/Kg	J	Z
TIN	2.43	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.885	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.97	J	0.933	MDL	5.24	PQL	mg/Kg	J	Z
LITHIUM	18.3		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	279		0.587	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2560		18.9	MDL	52.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-187-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:19:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.27	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.18	J	0.881	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.910	MDL	5.11	PQL	mg/Kg	J	Z
LITHIUM	16.5		0.23	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	242		0.573	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	2860		18.4	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	91.0	J	38.2	MDL	102	PQL	mg/Kg	J	Z
TIN	2.31	J	1.02	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.16	J	0.859	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.00	J	0.912	MDL	5.13	PQL	mg/Kg	J	Z
LITHIUM	18.4		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	316		0.574	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2680		18.5	MDL	51.3	PQL	mg/Kg	J	Q
SODIUM	86.3	J	38.2	MDL	103	PQL	mg/Kg	J	Z
TIN	2.02	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.38	J	0.861	MDL	5.13	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.76	J	0.967	MDL	5.43	PQL	mg/Kg	J	Z
LITHIUM	19.6		0.24	MDL	2.2	PQL	mg/Kg	J	A
PHOSPHORUS	348		0.609	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3010		19.6	MDL	54.3	PQL	mg/Kg	J	Q
SODIUM	98.5	J	40.5	MDL	109	PQL	mg/Kg	J	Z
TIN	2.67	J	1.09	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.63	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.62	J	0.893	MDL	5.02	PQL	mg/Kg	J	Z
LITHIUM	17.8		0.22	MDL	2.0	PQL	mg/Kg	J	A
PHOSPHORUS	325		0.562	MDL	10.0	PQL	mg/Kg	J	Q
POTASSIUM	3510		18.1	MDL	50.2	PQL	mg/Kg	J	Q
TIN	2.24	J	1.00	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.34	J	0.843	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
BORON	4.82	J	0.914	MDL	5.14	PQL	mg/Kg	J	Z
LITHIUM	17.2		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	332		0.575	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	3150		18.5	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	96.2	J	38.3	MDL	103	PQL	mg/Kg	J	Z
TIN	2.30	J	1.03	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.863	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.89	J	0.947	MDL	5.32	PQL	mg/Kg	J	Z
LITHIUM	19.2		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	300		0.596	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	3260		19.1	MDL	53.2	PQL	mg/Kg	J	Q
SODIUM	93.2	J	39.7	MDL	106	PQL	mg/Kg	J	Z
TIN	2.28	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.53	J	0.894	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.42	J	0.944	MDL	5.31	PQL	mg/Kg	J	Z
LITHIUM	21.9		0.23	MDL	2.1	PQL	mg/Kg	J	A
PHOSPHORUS	445		0.594	MDL	10.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3960		19.1	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	93.3	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.61	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.891	MDL	5.31	PQL	mg/Kg	J	Z

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

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *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	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.641		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.119	MDL	0.441	PQL	mg/Kg	J	E, A

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0662	MDL	0.221	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.56		0.0662	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.675		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.279		0.0397	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	20.1		0.132	MDL	0.441	PQL	mg/Kg	J	Q, E, A
COBALT	6.24		0.0221	MDL	0.110	PQL	mg/Kg	J	Q, A
COPPER	9.70		0.0728	MDL	0.441	PQL	mg/Kg	J	Q, E, A
LEAD	13.8		0.0115	MDL	0.221	PQL	mg/Kg	J	E, A
NICKEL	12.9		0.110	MDL	0.441	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0437	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.368		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	41.7		0.0243	MDL	0.110	PQL	mg/Kg	J	Q, E, A
ZINC	91.8		0.617	MDL	3.31	PQL	mg/Kg	J	E

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0438	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.992		0.0547	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	180		0.118	MDL	0.438	PQL	mg/Kg	J	E, A

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0657	MDL	0.219	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.74		0.0657	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.06		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.423		0.0394	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	37.4		0.131	MDL	0.438	PQL	mg/Kg	J	Q, E, A
COBALT	9.87		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, A
COPPER	15.4		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, E, A
LEAD	19.8		0.0114	MDL	0.219	PQL	mg/Kg	J	E, A
NICKEL	21.7		0.109	MDL	0.438	PQL	mg/Kg	J	Q, E, A
SILVER	0.0981	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.575		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	69.0		0.0241	MDL	0.109	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-013-SIV-SD-0.0-0.5 **Collected:** 12/16/2010 3:26:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	141		0.613	MDL	3.28	PQL	mg/Kg	J	E

Sample ID: SED-017-SIV-SD-0.0-0.5 **Collected:** 12/16/2010 10:45:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5 **Collected:** 12/16/2010 10:45:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.865		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SED-017-SIV-SD-0.0-0.5 **Collected:** 12/16/2010 10:45:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.120	MDL	0.443	PQL	mg/Kg	J	E, A

Sample ID: SED-017-SIV-SD-0.0-0.5 **Collected:** 12/16/2010 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	0.210	J	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.45		0.0665	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.735		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.743		0.0399	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.133	MDL	0.443	PQL	mg/Kg	J	Q, E, A
COBALT	7.30		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, A
COPPER	16.0		0.0731	MDL	0.443	PQL	mg/Kg	J	Q, E, A
LEAD	29.7		0.0115	MDL	0.222	PQL	mg/Kg	J	E, A
NICKEL	15.7		0.111	MDL	0.443	PQL	mg/Kg	J	Q, E, A
SILVER	0.141		0.0133	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.387		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	52.1		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, E, A
ZINC	117		0.620	MDL	3.32	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	308		1.83	MDL	9.81	PQL	mg/Kg	J	E

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.202	J	0.0523	MDL	0.523	PQL	mg/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.69		0.0654	MDL	0.131	PQL	mg/Kg	J	Q

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.141	MDL	0.523	PQL	mg/Kg	J	E, A

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.931		0.0785	MDL	0.262	PQL	mg/Kg	J	Q
ARSENIC	11.1		0.0785	MDL	0.523	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.07		0.0209	MDL	0.131	PQL	mg/Kg	J	Q, E
CADMIUM	2.23		0.0471	MDL	0.131	PQL	mg/Kg	J	Q
CHROMIUM	40.2		0.157	MDL	0.523	PQL	mg/Kg	J	Q, E, A
COBALT	11.2		0.0262	MDL	0.131	PQL	mg/Kg	J	Q, A
COPPER	50.5		0.0864	MDL	0.523	PQL	mg/Kg	J	Q, E, A
LEAD	54.2		0.0136	MDL	0.262	PQL	mg/Kg	J	E, A
NICKEL	23.5		0.131	MDL	0.523	PQL	mg/Kg	J	Q, E, A
SILVER	0.267		0.0157	MDL	0.131	PQL	mg/Kg	J	Q
THALLIUM	0.505		0.0393	MDL	0.131	PQL	mg/Kg	J	Q
VANADIUM	68.2		0.0288	MDL	0.131	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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
SELENIUM	0.0829	J	0.0418	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 11:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.497		0.0523	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 11:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.9		0.113	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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	0.191	J	0.0627	MDL	0.209	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.71		0.0627	MDL	0.418	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.548		0.0167	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.311		0.0376	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	19.0		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E, A
COBALT	5.25		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	8.77		0.0690	MDL	0.418	PQL	mg/Kg	J	Q, E, A
LEAD	12.2		0.0109	MDL	0.209	PQL	mg/Kg	J	E, A
NICKEL	11.1		0.105	MDL	0.418	PQL	mg/Kg	J	Q, E, A
SILVER	0.0561	J	0.0125	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	38.2		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	96.5		0.585	MDL	3.14	PQL	mg/Kg	J	E

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	161		0.641	MDL	3.43	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0458	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.78		0.0572	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	176		0.124	MDL	0.458	PQL	mg/Kg	J	E, A

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.319		0.0686	MDL	0.229	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.55		0.0686	MDL	0.458	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.926		0.0183	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.806		0.0412	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	36.7		0.137	MDL	0.458	PQL	mg/Kg	J	Q, E, A
COBALT	10.9		0.0229	MDL	0.114	PQL	mg/Kg	J	Q, A
COPPER	20.3		0.0755	MDL	0.458	PQL	mg/Kg	J	Q, E, A
LEAD	40.9		0.0119	MDL	0.229	PQL	mg/Kg	J	E, A
NICKEL	23.9		0.114	MDL	0.458	PQL	mg/Kg	J	Q, E, A
SILVER	0.228		0.0137	MDL	0.114	PQL	mg/Kg	J	Q
THALLIUM	0.395		0.0343	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	63.6		0.0252	MDL	0.114	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.12		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.120	MDL	0.445	PQL	mg/Kg	J	E, A

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.235		0.0667	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.7		0.0667	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.922		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.562		0.0400	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	32.2		0.133	MDL	0.445	PQL	mg/Kg	J	Q, E, A
COBALT	8.98		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, A
COPPER	16.4		0.0734	MDL	0.445	PQL	mg/Kg	J	Q, E, A
LEAD	21.2		0.0116	MDL	0.222	PQL	mg/Kg	J	E, A
NICKEL	19.9		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E, A
SILVER	0.249		0.0133	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.446		0.0333	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	57.4		0.0245	MDL	0.111	PQL	mg/Kg	J	Q, E, A
ZINC	127		0.622	MDL	3.33	PQL	mg/Kg	J	E

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.13		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.114	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.213		0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.2		0.0636	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.925		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.326		0.0381	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	32.1		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	8.47		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	13.8		0.0699	MDL	0.424	PQL	mg/Kg	J	Q, E, A
LEAD	18.6		0.0110	MDL	0.212	PQL	mg/Kg	J	E, A
NICKEL	19.3		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E, A
SILVER	0.0762	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.442		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	55.2		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E, A
ZINC	84.3		0.593	MDL	3.18	PQL	mg/Kg	J	E

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.16		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.111	MDL	0.410	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-173-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:12:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.216		0.0615	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	11.2		0.0615	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.893		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.345		0.0369	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	8.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	13.6		0.0677	MDL	0.410	PQL	mg/Kg	J	Q, E, A
LEAD	16.3		0.0107	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	18.7		0.103	MDL	0.410	PQL	mg/Kg	J	Q, E, A
SILVER	0.0930	J	0.0123	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.448		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	53.7		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, A
ZINC	99.2		0.574	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-176-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 9:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0667	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 9:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.811		0.0526	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 9:25:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	169		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-176-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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	0.192	J	0.0631	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.93		0.0631	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.495		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-176-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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
CADMIUM	0.506		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	20.5		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	7.07		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	13.2		0.0694	MDL	0.421	PQL	mg/Kg	J	Q, E, A
LEAD	37.6		0.0109	MDL	0.210	PQL	mg/Kg	J	E, A
NICKEL	12.5		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E, A
SILVER	0.123		0.0126	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.314		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	53.2		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	110		0.589	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-178-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 9:15:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	474		1.78	MDL	9.53	PQL	mg/Kg	J	E

Sample ID: SL-178-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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	0.183	J	0.0508	MDL	0.508	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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	2.46		0.0635	MDL	0.127	PQL	mg/Kg	J	Q

Sample ID: SL-178-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 9:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.137	MDL	0.508	PQL	mg/Kg	J	E, A

Sample ID: SL-178-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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	0.533		0.0763	MDL	0.254	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-178-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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
ARSENIC	8.88		0.0763	MDL	0.508	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.03		0.0203	MDL	0.127	PQL	mg/Kg	J	Q, E
CADMIUM	2.39		0.0458	MDL	0.127	PQL	mg/Kg	J	Q
CHROMIUM	54.6		0.153	MDL	0.508	PQL	mg/Kg	J	Q, E, A
COBALT	13.1		0.0254	MDL	0.127	PQL	mg/Kg	J	Q, A
COPPER	32.0		0.0839	MDL	0.508	PQL	mg/Kg	J	Q, E, A
LEAD	101		0.0132	MDL	0.254	PQL	mg/Kg	J	E, A
NICKEL	35.0		0.127	MDL	0.508	PQL	mg/Kg	J	Q, E, A
SILVER	1.90		0.0153	MDL	0.127	PQL	mg/Kg	J	Q
THALLIUM	0.503		0.0381	MDL	0.127	PQL	mg/Kg	J	Q
VANADIUM	69.8		0.0280	MDL	0.127	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-186-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 10:56:00 ***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	0.0409	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 10:56:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.08		0.0511	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-186-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 10:56:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	177		0.110	MDL	0.409	PQL	mg/Kg	J	E, A

Sample ID: SL-186-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 10:56:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222		0.0614	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	16.4		0.0614	MDL	0.409	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.995		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.283		0.0368	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	34.6		0.123	MDL	0.409	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.10		0.0205	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	14.7		0.0675	MDL	0.409	PQL	mg/Kg	J	Q, E, A
LEAD	27.1		0.0106	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	21.2		0.102	MDL	0.409	PQL	mg/Kg	J	Q, E, A
SILVER	0.119		0.0123	MDL	0.102	PQL	mg/Kg	J	Q
THALLIUM	0.426		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	58.8		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E, A
ZINC	96.3		0.573	MDL	3.07	PQL	mg/Kg	J	E

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *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	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.26		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.114	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0636	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.93		0.0636	MDL	0.424	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.866		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.356		0.0381	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	32.7		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	9.70		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, A
COPPER	13.7		0.0699	MDL	0.424	PQL	mg/Kg	J	Q, E, A
LEAD	19.9		0.0110	MDL	0.212	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-187-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:19:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	22.2		0.106	MDL	0.424	PQL	mg/Kg	J	Q, E, A
SILVER	0.0889	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.408		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	53.1		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E, A
ZINC	89.3		0.593	MDL	3.18	PQL	mg/Kg	J	E

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.230		0.0387	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0430	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.839		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.116	MDL	0.430	PQL	mg/Kg	J	E, A

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.212	J	0.0644	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.46		0.0644	MDL	0.430	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.632		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CHROMIUM	20.4		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E, A
COBALT	6.54		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	10.8		0.0709	MDL	0.430	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.8		0.0112	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	13.8		0.107	MDL	0.430	PQL	mg/Kg	J	Q, E, A
SILVER	0.100	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	38.0		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E, A
ZINC	57.3		0.602	MDL	3.22	PQL	mg/Kg	J	E

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0410	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.936		0.0513	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.111	MDL	0.410	PQL	mg/Kg	J	E, A

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.247		0.0615	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	15.1		0.0615	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.846		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.507		0.0369	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	33.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	8.86		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	17.3		0.0677	MDL	0.410	PQL	mg/Kg	J	Q, E, A
LEAD	16.4		0.0107	MDL	0.205	PQL	mg/Kg	J	E, A
NICKEL	21.8		0.103	MDL	0.410	PQL	mg/Kg	J	Q, E, A
SILVER	0.121		0.0123	MDL	0.103	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-192-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 11:04:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.424		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	56.9		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, A
ZINC	129		0.574	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-194-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 1:40:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 1:40:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.752		0.0538	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 1:40:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	156		0.116	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-194-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 1:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.209	J	0.0646	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.02		0.0646	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.881		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.261		0.0387	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	29.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E, A
COBALT	8.37		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, A
COPPER	12.5		0.0710	MDL	0.431	PQL	mg/Kg	J	Q, E, A
LEAD	14.2		0.0112	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	17.2		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E, A
SILVER	0.0775	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.391		0.0323	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	56.3		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E, A
ZINC	90.8		0.603	MDL	3.23	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0401	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.35		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.108	MDL	0.401	PQL	mg/Kg	J	E, A

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206		0.0602	MDL	0.201	PQL	mg/Kg	UJ	Q, B
ARSENIC	11.1		0.0602	MDL	0.401	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.974		0.0161	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.407		0.0361	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	29.6		0.120	MDL	0.401	PQL	mg/Kg	J	Q, E, A
COBALT	11.8		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	14.4		0.0662	MDL	0.401	PQL	mg/Kg	J	Q, E, A
LEAD	16.6		0.0104	MDL	0.201	PQL	mg/Kg	J	E, A
NICKEL	19.0		0.100	MDL	0.401	PQL	mg/Kg	J	Q, E, A
SILVER	0.105		0.0120	MDL	0.100	PQL	mg/Kg	J	Q
THALLIUM	0.410		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	55.6		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, E, A
ZINC	91.8		0.562	MDL	3.01	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
SELENIUM	0.126	J	0.0419	MDL	0.419	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-198-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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
MOLYBDENUM	2.73		0.0524	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 10:59:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.113	MDL	0.419	PQL	mg/Kg	J	E, A

Sample ID: SL-198-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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	0.530		0.0628	MDL	0.209	PQL	mg/Kg	J	Q
ARSENIC	12.8		0.0628	MDL	0.419	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.799		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	1.33		0.0377	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.6		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E, A
COBALT	33.3		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	102		0.0691	MDL	0.419	PQL	mg/Kg	J	Q, E, A
LEAD	59.0		0.0109	MDL	0.209	PQL	mg/Kg	J	E, A
NICKEL	36.3		0.105	MDL	0.419	PQL	mg/Kg	J	Q, E, A
SILVER	0.146		0.0126	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.422		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	55.3		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	188		0.587	MDL	3.14	PQL	mg/Kg	J	E

Sample ID: SL-199-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:23:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.204	J	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:23:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.15		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-199-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 1:23:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.114	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-199-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 1:23:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.157	J	0.0632	MDL	0.211	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.33		0.0632	MDL	0.421	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.742		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.517		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	29.9		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	10.0		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	25.4		0.0695	MDL	0.421	PQL	mg/Kg	J	Q, E, A
LEAD	22.0		0.0110	MDL	0.211	PQL	mg/Kg	J	E, A
NICKEL	23.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E, A
SILVER	0.0725	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.424		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	50.1		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	82.9		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-202-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 2:23:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0909	J	0.0412	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 2:23:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0515	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-202-SA5B-SS-0.0-0.5 **Collected:** 12/16/2010 2:23:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.111	MDL	0.412	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0618	MDL	0.206	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.14		0.0618	MDL	0.412	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.775		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.334		0.0371	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	28.3		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E, A
COBALT	7.91		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
COPPER	13.2		0.0680	MDL	0.412	PQL	mg/Kg	J	Q, E, A
LEAD	17.3		0.0107	MDL	0.206	PQL	mg/Kg	J	E, A
NICKEL	18.1		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E, A
SILVER	0.0856	J	0.0124	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.405		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	53.0		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, E, A
ZINC	98.7		0.577	MDL	3.09	PQL	mg/Kg	J	E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.95	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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	0.56	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 Laboratory: LL

EDD Filename: PrepDE042_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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	0.90	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.88	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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	0.70	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0198	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0741	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0051	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0119	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0053	J	0.0028	MDL	0.0986	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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	0.0109	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0212	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0030	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.101	J	0.0029	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0267	J	0.0028	MDL	0.0989	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
MERCURY	0.0108	J	0.0028	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0067	J	0.0029	MDL	0.100	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0503	J	0.0029	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	1.2		0.037	MDL	0.18	PQL	ug/Kg	J	S
DELTA-BHC	0.27		0.040	MDL	0.18	PQL	ug/Kg	J	S
ENDOSULFAN I	0.13	J	0.049	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.071	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z, S

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 10:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.075	U	0.075	MDL	0.38	PQL	ug/Kg	UJ	S
4,4'-DDE	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	S
4,4'-DDT	2.1	U	2.1	MDL	2.1	PQL	ug/Kg	UJ	S
ALDRIN	0.075	U	0.075	MDL	0.19	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	2.1	U	2.1	MDL	3.8	PQL	ug/Kg	UJ	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	UJ	S
DIELDRIN	0.34	U	0.34	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.15	U	0.15	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.075	U	0.075	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN	0.075	U	0.075	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.28	U	0.28	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.22	U	0.22	MDL	0.38	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-017-SIV-SD-0.0-0.5 ***Collected:*** 12/16/2010 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
gamma-BHC (Lindane)	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.055	U	0.055	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.55	U	0.55	MDL	0.55	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.5	PQL	ug/Kg	UJ	S

Sample ID: SED-019-SIV-SD-0.0-0.5 ***Collected:*** 12/16/2010 9:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.29	J	0.24	MDL	1.1	PQL	ug/Kg	J	Z

Sample ID: SED-020-SIV-SD-0.0-0.5 ***Collected:*** 12/16/2010 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
DELTA-BHC	0.075	J	0.039	MDL	0.18	PQL	ug/Kg	J	Z, S

Sample ID: SL-169-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:37:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.057	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z
DELTA-BHC	0.056	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:52:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.090	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z
DELTA-BHC	0.15	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.036	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 9:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.46	J	0.32	MDL	0.87	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-186-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 10:56:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.080	J	0.064	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:19:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.37		0.26	MDL	0.36	PQL	ug/Kg	J	S
4,4'-DDE	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	R	S
4,4'-DDT	0.54	U	0.54	MDL	0.54	PQL	ug/Kg	R	S
ALDRIN	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	R	S
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	R	S
BETA-BHC	0.095	U	0.095	MDL	0.18	PQL	ug/Kg	R	S
Chlordane	3.4	U	3.4	MDL	3.6	PQL	ug/Kg	R	S
DELTA-BHC	0.43		0.038	MDL	0.18	PQL	ug/Kg	J	S
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	R	S
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.32	U	0.32	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.074	U	0.074	MDL	0.18	PQL	ug/Kg	R	S
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	R	S
MIREX	0.34	U	0.34	MDL	0.36	PQL	ug/Kg	R	S
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	R	S

Sample ID: SL-194-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.23	U	0.23	MDL	0.38	PQL	ug/Kg	R	S
4,4'-DDE	0.29	U	0.29	MDL	0.38	PQL	ug/Kg	R	S
4,4'-DDT	0.51	U	0.51	MDL	0.51	PQL	ug/Kg	R	S
ALDRIN	0.073	U	0.073	MDL	0.18	PQL	ug/Kg	R	S
ALPHA-BHC	0.14	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.067	U	0.067	MDL	0.18	PQL	ug/Kg	R	S
Chlordane	5.0	U	5.0	MDL	5.0	PQL	ug/Kg	R	S
DELTA-BHC	0.040	U	0.040	MDL	0.18	PQL	ug/Kg	R	S
DIELDRIN	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	R	S
ENDOSULFAN I	0.049	U	0.049	MDL	0.18	PQL	ug/Kg	R	S
ENDOSULFAN II	0.080	U	0.080	MDL	0.38	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN	0.073	U	0.073	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.23	U	0.23	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN KETONE	0.13	U	0.13	MDL	0.38	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.038	U	0.038	MDL	0.18	PQL	ug/Kg	R	S
HEPTACHLOR	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.065	U	0.065	MDL	0.18	PQL	ug/Kg	R	S
METHOXYCHLOR	0.38	U	0.38	MDL	1.8	PQL	ug/Kg	R	S
MIREX	0.13	U	0.13	MDL	0.38	PQL	ug/Kg	R	S
TOXAPHENE	2.4	U	2.4	MDL	7.3	PQL	ug/Kg	R	S

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.13	U	0.13	MDL	0.36	PQL	ug/Kg	R	S
4,4'-DDE	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	R	S
4,4'-DDT	0.48	U	0.48	MDL	0.48	PQL	ug/Kg	R	S
ALDRIN	0.084	J	0.070	MDL	0.17	PQL	ug/Kg	J	Z, S
ALPHA-BHC	0.043	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	0.84	U	0.84	MDL	3.6	PQL	ug/Kg	R	S
DELTA-BHC	0.12	U	0.12	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN I	0.081	U	0.081	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.37	U	0.37	MDL	0.37	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.048	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.40	U	0.40	MDL	0.40	PQL	ug/Kg	R	S
METHOXYCHLOR	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	R	S
MIREX	0.87	U	0.87	MDL	0.87	PQL	ug/Kg	R	S
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	R	S

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
BETA-BHC	0.14	J	0.064	MDL	0.18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	2.6	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, L

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	4.7		1.1	MDL	3.8	PQL	ug/Kg	J	L

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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
Aroclor 5432	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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
Aroclor 5442	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5460	13		2.3	MDL	7.5	PQL	ug/Kg	J	L

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	13	U	13	MDL	44	PQL	ug/Kg	UJ	L
Aroclor 5442	13	U	13	MDL	44	PQL	ug/Kg	UJ	L
Aroclor 5460	130		13	MDL	44	PQL	ug/Kg	J	L

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.5	J	0.72	MDL	3.7	PQL	ug/Kg	J	Z
Aroclor 5432	2.2	U	2.2	MDL	7.2	PQL	ug/Kg	UJ	L
Aroclor 5442	2.2	U	2.2	MDL	7.2	PQL	ug/Kg	UJ	L
Aroclor 5460	6.6	J	2.2	MDL	7.2	PQL	ug/Kg	J	Z, L

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	5.7	U	5.7	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5442	5.7	U	5.7	MDL	19	PQL	ug/Kg	UJ	L
Aroclor 5460	62		5.7	MDL	19	PQL	ug/Kg	J	L

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5442	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5460	7.0	J	2.3	MDL	7.5	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *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 1260	0.92	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.1	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	3.8		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:25:00 *Analysis Type:* RES *Dilution:* 250

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	260	U	260	MDL	870	PQL	ug/Kg	UJ	L
Aroclor 5442	260	U	260	MDL	870	PQL	ug/Kg	UJ	L
Aroclor 5460	260	U	260	MDL	870	PQL	ug/Kg	UJ	L

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:15:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	13	U	13	MDL	42	PQL	ug/Kg	UJ	L
Aroclor 5442	13	U	13	MDL	42	PQL	ug/Kg	UJ	L
Aroclor 5460	54		13	MDL	42	PQL	ug/Kg	J	L

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.0	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.71	MDL	3.7	PQL	ug/Kg	J	Z
Aroclor 5432	2.1	U	2.1	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.1	PQL	ug/Kg	UJ	L
Aroclor 5460	5.0	J	2.1	MDL	7.1	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-187-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:19:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	5.6		1.1	MDL	3.5	PQL	ug/Kg	J	L

Sample ID: SL-189-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.86	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.7	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.3	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
AROCLOR 1260	5.5	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
Aroclor 5432	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5442	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L
Aroclor 5460	5.4	U	5.4	MDL	18	PQL	ug/Kg	UJ	L

Sample ID: SL-194-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	3.0	J	1.1	MDL	3.7	PQL	ug/Kg	J	Z, L

Sample ID: SL-196-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:12:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	6.1		1.1	MDL	3.5	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	7.8		0.70	MDL	3.6	PQL	ug/Kg	J	S
AROCLOR 1260	13		0.70	MDL	3.6	PQL	ug/Kg	J	S
Aroclor 5432	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.1	U	2.1	MDL	7.0	PQL	ug/Kg	UJ	L
Aroclor 5460	9.9		2.1	MDL	7.0	PQL	ug/Kg	J	S, L

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	2.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, L

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.9	J	1.3	MDL	4.0	PQL	ug/Kg	J	Z
DICAMBA	0.59	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.88	U	0.88	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.78	J	0.46	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.9	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z
DICAMBA	0.49	J	0.45	MDL	1.4	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L
MCPP	220	J	85	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.73	J	0.54	MDL	1.6	PQL	ug/Kg	J	Z
DINOSEB	1.1	U	1.1	MDL	3.2	PQL	ug/Kg	R	L

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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
DICAMBA	0.57	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L
MCPA	260	J	87	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
DICHLOROPROP	1.4	J	0.84	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
DICAMBA	0.55	J	0.51	MDL	1.5	PQL	ug/Kg	J	Z
DINOSEB	1.0	U	1.0	MDL	3.1	PQL	ug/Kg	R	L

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	2.7	U	2.7	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.52	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-189-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.7	PQL	ug/Kg	R	Q
DICAMBA	0.49	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z, Q, Q
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L
MCPP	610	U	610	MDL	610	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-192-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 11:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.84	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	1.8	U	1.8	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-194-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.46	J	0.44	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-196-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:12:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-198-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 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
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-199-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 1:23:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	R	L
MCPP	220	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5 ***Collected:*** 12/16/2010 2:23:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	U	0.86	MDL	2.6	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *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	95	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *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	380	PQL	ug/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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	51	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *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	24	J	22	MDL	220	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	120	J	22	MDL	450	PQL	ug/Kg	J	Z
Butylbenzylphthalate	42	J	22	MDL	220	PQL	ug/Kg	J	Z
CHRYSENE	37	J	22	MDL	220	PQL	ug/Kg	J	Z
Di-n-butylphthalate	26	J	22	MDL	220	PQL	ug/Kg	J	Z
FLUORANTHENE	71	J	22	MDL	220	PQL	ug/Kg	J	Z
PYRENE	47	J	22	MDL	220	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	44	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	72	J	19	MDL	190	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	19	MDL	380	PQL	ug/Kg	J	Z
FLUORANTHENE	21	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	82	J	19	MDL	190	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *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	49	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	43	J	21	MDL	430	PQL	ug/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	45	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	81	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:25:00 *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-DIMETHYLPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	Q
ANILINE	180	U	180	MDL	540	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:04:00 *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	47	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *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	20	J	18	MDL	370	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	59	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	57	J	18	MDL	180	PQL	ug/Kg	J	Z

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

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *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	0.40	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *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	1.7	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	6.0	J	2.2	MDL	11	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	9.7	J	4.5	MDL	11	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	8.6	J	4.5	MDL	11	PQL	ug/Kg	J	Z
NAPHTHALENE	9.0	J	4.5	MDL	11	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.90	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.86	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *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	0.71	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.94	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.95	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.0	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.86	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
ANTHRACENE	0.87	J	0.43	MDL	2.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.8	J	7.7	MDL	23	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.94	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-189-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.85	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.96	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
Diethylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.44	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.80	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.7	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.45	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	1.2	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: PrepDE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	1.5	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.1	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.41	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.93	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.96	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:59:00 *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	3.9	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	8.6	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	7.6	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
FLUORANTHENE	4.5	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
PHENANTHRENE	4.7	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
PYRENE	4.4	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.4	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	6.0	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.4	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
CHRYSENE	8.6	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z
PHENANTHRENE	4.8	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE042

Method Blank Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: DE042_v1 **eQAPP Name:** CDM_SSFL_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35408BB221619	12/30/2010 4:19:00 PM	CALCIUM PHOSPHORUS TIN	5.92 mg/Kg 1.80 mg/Kg 1.23 mg/Kg	SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-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
SED-011-SIV-SD-0.0-0.5(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SED-013-SIV-SD-0.0-0.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SED-017-SIV-SD-0.0-0.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SED-019-SIV-SD-0.0-0.5(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SED-020-SIV-SD-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-147-SA5B-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-169-SA5B-SS-0.0-0.5(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-172-SA5B-SS-0.0-0.5(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-173-SA5B-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-176-SA5B-SS-0.0-0.5(RES)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-178-SA5B-SS-0.0-0.5(RES)	TIN	3.39 mg/Kg	3.39U mg/Kg
SL-186-SA5B-SS-0.0-0.5(RES)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-187-SA5B-SS-0.0-0.5(RES)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-189-SA5B-SS-0.0-0.5(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-192-SA5B-SS-0.0-0.5(RES)	TIN	2.02 mg/Kg	2.02U mg/Kg
SL-194-SA5B-SS-0.0-0.5(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-196-SA5B-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-198-SA5B-SS-0.0-0.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-199-SA5B-SS-0.0-0.5(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-202-SA5B-SS-0.0-0.5(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35426BB221518A	12/30/2010 3:18:00 PM	COPPER	0.111 mg/Kg	SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_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-189-SA5B-SS-0.0-0.5MS (SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	FLUORIDE	77	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	4,4'-DDE ALPHA-BHC	- -	166 -	18.00-161.00 10.00-129.00	- 53 (50.00)	4,4'-DDE ALPHA-BHC	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	2,4-DB DICAMBA DINOSEB	- - -	273 148 -	20.00-170.00 33.00-120.00 1.00-44.00	87 (50.00) 52 (50.00) 85 (35.00)	2,4-DB DICAMBA DINOSEB	J(all detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	DALAPON MCPP	0 0	- -	12.00-86.00 16.00-174.00	200 (50.00) 200 (50.00)	DALAPON MCPP	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_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-SA5B-SS-0.0-0.5MS **SL-189-SA5B-SS-0.0-0.5MSD** (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	299 188 181 213 137 156 290 183 163 184 289 354	300 198 179 238 142 167 369 192 167 185 314 384	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) Pb, Zn No Qual, >4x
SL-189-SA5B-SS-0.0-0.5MS **SL-189-SA5B-SS-0.0-0.5MSD** (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	ANTIMONY	62	56	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-189-SA5B-SS-0.0-0.5MS **SL-189-SA5B-SS-0.0-0.5MSD** (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	MOLYBDENUM	169	177	75.00-125.00	-	MOLYBDENUM	J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_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-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	BARIUM	599	627	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-189-SA5B-SS-0.0-0.5MS	ALUMINUM	1508	1850	75.00-125.00	-	ALUMINUM	
SL-189-SA5B-SS-0.0-0.5MSD	CALCIUM	-	136	75.00-125.00	-	CALCIUM	
(SED-011-SIV-SD-0.0-0.5	MAGNESIUM	156	302	75.00-125.00	-	MAGNESIUM	
SED-013-SIV-SD-0.0-0.5	POTASSIUM	-	144	75.00-125.00	-	POTASSIUM	
SED-017-SIV-SD-0.0-0.5	TITANIUM	288	359	75.00-125.00	-	TITANIUM	
SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)							J(all detects) Al, Ca, Mg, Ti No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_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-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	IRON	-871	1520	75.00-125.00	-	IRON	No Qual, >4x
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SED-011-SIV-SD-0.0-0.5 SED-013-SIV-SD-0.0-0.5 SED-017-SIV-SD-0.0-0.5 SED-019-SIV-SD-0.0-0.5 SED-020-SIV-SD-0.0-0.5 SL-147-SA5B-SS-0.0-0.5 SL-169-SA5B-SS-0.0-0.5 SL-172-SA5B-SS-0.0-0.5 SL-173-SA5B-SS-0.0-0.5 SL-176-SA5B-SS-0.0-0.5 SL-178-SA5B-SS-0.0-0.5 SL-186-SA5B-SS-0.0-0.5 SL-187-SA5B-SS-0.0-0.5 SL-189-SA5B-SS-0.0-0.5 SL-192-SA5B-SS-0.0-0.5 SL-194-SA5B-SS-0.0-0.5 SL-196-SA5B-SS-0.0-0.5 SL-198-SA5B-SS-0.0-0.5 SL-199-SA5B-SS-0.0-0.5 SL-202-SA5B-SS-0.0-0.5)	MANGANESE PHOSPHORUS	62 64	174 -	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) Mn No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	BENZOIC ACID	-	-	10.00-173.00	78 (30.00)	BENZOIC ACID	J(all detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	2,4-DIMETHYLPHENOL ANILINE	- -	75 26	78.00-110.00 35.00-95.00	- 34 (30.00)	2,4-DIMETHYLPHENOL ANILINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_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-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	169	-	39.00-167.00	37 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	Diethylphthalate	81	81	87.00-131.00	-	Diethylphthalate	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-176-SA5B-SS-0.0-0.5DUP (SED-011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5)	FLUORIDE	38	20.00	No Qual OK by difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5B-SS-0.0-0.5DUP (SED-011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5 SL -178-SA5B-SS-0.0-0.5 SL -186-SA5B-SS-0.0-0.5 SL -187-SA5B-SS-0.0-0.5 SL -189-SA5B-SS-0.0-0.5 SL -192-SA5B-SS-0.0-0.5 SL -194-SA5B-SS-0.0-0.5 SL -196-SA5B-SS-0.0-0.5 SL -198-SA5B-SS-0.0-0.5 SL -199-SA5B-SS-0.0-0.5 SL -202-SA5B-SS-0.0-0.5)	ARSENIC	36	20.00	J(all detects) UJ(all non-detects) Cd No Qual OK by difference
	BARIUM	24	20.00	
	BERYLLIUM	27	20.00	
	CADMIUM	34	20.00	
	CHROMIUM	29	20.00	
	COPPER	21	20.00	
	LEAD	27	20.00	
	NICKEL	25	20.00	
	VANADIUM	24	20.00	
	ZINC	30	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: PrepDE042_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
P03564AQ242306A P03564AY242248A (SED-011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5 SL -178-SA5B-SS-0.0-0.5 SL -186-SA5B-SS-0.0-0.5 SL -187-SA5B-SS-0.0-0.5 SL -189-SA5B-SS-0.0-0.5 SL -192-SA5B-SS-0.0-0.5 SL -194-SA5B-SS-0.0-0.5 SL -196-SA5B-SS-0.0-0.5 SL -198-SA5B-SS-0.0-0.5 SL -199-SA5B-SS-0.0-0.5 SL -202-SA5B-SS-0.0-0.5)	Aroclor 5442	68	61	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03622AQ242120A (SED-011-SIV-SD-0.0-0.5 SED -013-SIV-SD-0.0-0.5 SED -017-SIV-SD-0.0-0.5 SED -019-SIV-SD-0.0-0.5 SED -020-SIV-SD-0.0-0.5 SL -147-SA5B-SS-0.0-0.5 SL -169-SA5B-SS-0.0-0.5 SL -172-SA5B-SS-0.0-0.5 SL -173-SA5B-SS-0.0-0.5 SL -176-SA5B-SS-0.0-0.5 SL -178-SA5B-SS-0.0-0.5 SL -186-SA5B-SS-0.0-0.5 SL -187-SA5B-SS-0.0-0.5 SL -189-SA5B-SS-0.0-0.5 SL -192-SA5B-SS-0.0-0.5 SL -194-SA5B-SS-0.0-0.5 SL -196-SA5B-SS-0.0-0.5 SL -198-SA5B-SS-0.0-0.5 SL -199-SA5B-SS-0.0-0.5 SL -202-SA5B-SS-0.0-0.5)	DINOSEB	5	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8081A**
Matrix: **SO**

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-011-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	188	20.00-120.00	All Target Analytes	J (all detects)
SED-013-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	241	20.00-120.00	All Target Analytes	J(all detects)
SED-017-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	48	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-019-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	190	20.00-120.00	All Target Analytes	No Qual Diluted Out
SED-020-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	176	20.00-120.00	All Target Analytes	J(all detects)
SL-176-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-178-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	216	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-187-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-192-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual Diluted Out
SL-194-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-196-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-202-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	289	20.00-120.00	All Target Analytes	J(all detects)

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

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-178-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	No Qual Diluted Out
SL-199-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	124 151	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-172-SA5B-SS-0.0-0.5	FLUORIDE	J	0.95	1.1	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	SODIUM	J	75.3	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.8	PQL	mg/Kg	
SED-013-SIV-SD-0.0-0.5	BORON	J	4.43	5.75	PQL	mg/Kg	J (all detects)
	SODIUM	J	112	115	PQL	mg/Kg	
	TIN	J	2.83	11.5	PQL	mg/Kg	
SED-017-SIV-SD-0.0-0.5	SODIUM	J	79.4	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	11.1	PQL	mg/Kg	
	Zirconium	J	1.45	5.54	PQL	mg/Kg	
SED-019-SIV-SD-0.0-0.5	BORON	J	6.31	6.48	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	13.0	PQL	mg/Kg	
	Zirconium	J	1.15	6.48	PQL	mg/Kg	
SED-020-SIV-SD-0.0-0.5	BORON	J	3.88	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.8	107	PQL	mg/Kg	
	TIN	J	2.28	10.7	PQL	mg/Kg	
SL-147-SA5B-SS-0.0-0.5	BORON	J	4.18	5.72	PQL	mg/Kg	J (all detects)
	TIN	J	2.28	11.4	PQL	mg/Kg	
	Zirconium	J	1.47	5.72	PQL	mg/Kg	
SL-169-SA5B-SS-0.0-0.5	SODIUM	J	105	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	11.0	PQL	mg/Kg	
	Zirconium	J	1.96	5.50	PQL	mg/Kg	
SL-172-SA5B-SS-0.0-0.5	BORON	J	4.12	5.30	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.7	106	PQL	mg/Kg	
	TIN	J	2.29	10.6	PQL	mg/Kg	
	Zirconium	J	1.11	5.30	PQL	mg/Kg	
SL-173-SA5B-SS-0.0-0.5	BORON	J	3.94	5.18	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.3	104	PQL	mg/Kg	
	TIN	J	2.36	10.4	PQL	mg/Kg	
	Zirconium	J	1.53	5.18	PQL	mg/Kg	
SL-176-SA5B-SS-0.0-0.5	BORON	J	3.62	5.01	PQL	mg/Kg	J (all detects)
	TIN	J	2.12	10.0	PQL	mg/Kg	
	Zirconium	J	1.27	5.01	PQL	mg/Kg	
SL-178-SA5B-SS-0.0-0.5	BORON	J	5.32	6.23	PQL	mg/Kg	J (all detects)
	TIN	J	3.39	12.5	PQL	mg/Kg	
	Zirconium	J	1.36	6.23	PQL	mg/Kg	
SL-186-SA5B-SS-0.0-0.5	BORON	J	4.32	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	105	PQL	mg/Kg	
	TIN	J	2.43	10.5	PQL	mg/Kg	
	Zirconium	J	1.98	5.27	PQL	mg/Kg	
SL-187-SA5B-SS-0.0-0.5	BORON	J	3.97	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	10.5	PQL	mg/Kg	
	Zirconium	J	2.18	5.24	PQL	mg/Kg	
SL-189-SA5B-SS-0.0-0.5	BORON	J	4.10	5.11	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.0	102	PQL	mg/Kg	
	TIN	J	2.31	10.2	PQL	mg/Kg	
	Zirconium	J	2.16	5.11	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory:** LL

EDD Filename: DE042_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA5B-SS-0.0-0.5	BORON	J	3.00	5.13	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.3	103	PQL	mg/Kg	
	TIN	J	2.02	10.3	PQL	mg/Kg	
	Zirconium	J	1.38	5.13	PQL	mg/Kg	
SL-194-SA5B-SS-0.0-0.5	BORON	J	3.76	5.43	PQL	mg/Kg	J (all detects)
	SODIUM	J	98.5	109	PQL	mg/Kg	
	TIN	J	2.67	10.9	PQL	mg/Kg	
	Zirconium	J	1.63	5.43	PQL	mg/Kg	
SL-196-SA5B-SS-0.0-0.5	BORON	J	3.62	5.02	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.0	PQL	mg/Kg	
	Zirconium	J	2.34	5.02	PQL	mg/Kg	
SL-198-SA5B-SS-0.0-0.5	BORON	J	4.82	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.2	103	PQL	mg/Kg	
	TIN	J	2.30	10.3	PQL	mg/Kg	
	Zirconium	J	1.81	5.14	PQL	mg/Kg	
SL-199-SA5B-SS-0.0-0.5	BORON	J	4.89	5.32	PQL	mg/Kg	J (all detects)
	SODIUM	J	93.2	106	PQL	mg/Kg	
	TIN	J	2.28	10.6	PQL	mg/Kg	
	Zirconium	J	1.53	5.32	PQL	mg/Kg	
SL-202-SA5B-SS-0.0-0.5	BORON	J	4.42	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	93.3	106	PQL	mg/Kg	
	TIN	J	2.61	10.6	PQL	mg/Kg	
	Zirconium	J	1.47	5.31	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	ANTIMONY	J	0.189	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.441	PQL	mg/Kg	
	SILVER	J	0.0437	0.110	PQL	mg/Kg	
SED-013-SIV-SD-0.0-0.5	ANTIMONY	J	0.188	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.207	0.438	PQL	mg/Kg	
	SILVER	J	0.0981	0.109	PQL	mg/Kg	
SED-017-SIV-SD-0.0-0.5	ANTIMONY	J	0.210	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.443	PQL	mg/Kg	
SED-019-SIV-SD-0.0-0.5	SELENIUM	J	0.202	0.523	PQL	mg/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	ANTIMONY	J	0.191	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0829	0.418	PQL	mg/Kg	
	SILVER	J	0.0561	0.105	PQL	mg/Kg	
SL-147-SA5B-SS-0.0-0.5	SELENIUM	J	0.143	0.458	PQL	mg/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	SELENIUM	J	0.132	0.445	PQL	mg/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	SELENIUM	J	0.119	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0762	0.106	PQL	mg/Kg	
SL-173-SA5B-SS-0.0-0.5	SELENIUM	J	0.118	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0930	0.103	PQL	mg/Kg	
SL-176-SA5B-SS-0.0-0.5	ANTIMONY	J	0.192	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0667	0.421	PQL	mg/Kg	
SL-178-SA5B-SS-0.0-0.5	SELENIUM	J	0.183	0.508	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5B-SS-0.0-0.5	SELENIUM	J	0.109	0.409	PQL	mg/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	ANTIMONY	J	0.188	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.424	PQL	mg/Kg	
	SILVER	J	0.0889	0.106	PQL	mg/Kg	
SL-189-SA5B-SS-0.0-0.5	ANTIMONY	J	0.212	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.430	PQL	mg/Kg	
	SILVER	J	0.100	0.107	PQL	mg/Kg	
SL-192-SA5B-SS-0.0-0.5	SELENIUM	J	0.118	0.410	PQL	mg/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	ANTIMONY	J	0.209	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.431	PQL	mg/Kg	
	SILVER	J	0.0775	0.108	PQL	mg/Kg	
SL-196-SA5B-SS-0.0-0.5	SELENIUM	J	0.135	0.401	PQL	mg/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	SELENIUM	J	0.126	0.419	PQL	mg/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	ANTIMONY	J	0.157	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.204	0.421	PQL	mg/Kg	
	SILVER	J	0.0725	0.105	PQL	mg/Kg	
SL-202-SA5B-SS-0.0-0.5	ANTIMONY	J	0.189	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0909	0.412	PQL	mg/Kg	
	SILVER	J	0.0856	0.103	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.95	1.1	PQL	mg/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-173-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.90	1.1	PQL	mg/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.88	1.1	PQL	mg/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-189-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-196-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.72	1.1	PQL	mg/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-013-SIV-SD-0.0-0.5	MERCURY	J	0.0198	0.109	PQL	mg/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	MERCURY	J	0.0741	0.107	PQL	mg/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	MERCURY	J	0.0051	0.105	PQL	mg/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	MERCURY	J	0.0119	0.110	PQL	mg/Kg	J (all detects)
SL-173-SA5B-SS-0.0-0.5	MERCURY	J	0.0053	0.0986	PQL	mg/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	MERCURY	J	0.0109	0.104	PQL	mg/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	MERCURY	J	0.0212	0.102	PQL	mg/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	MERCURY	J	0.0130	0.104	PQL	mg/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	MERCURY	J	0.101	0.103	PQL	mg/Kg	J (all detects)
SL-196-SA5B-SS-0.0-0.5	MERCURY	J	0.0267	0.0989	PQL	mg/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	MERCURY	J	0.0108	0.0992	PQL	mg/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	MERCURY	J	0.0067	0.100	PQL	mg/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	MERCURY	J	0.0503	0.102	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	ENDOSULFAN I	J	0.13	0.18	PQL	ug/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	DELTA-BHC	J	0.071	0.19	PQL	ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	DELTA-BHC	J	0.29	1.1	PQL	ug/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	DELTA-BHC	J	0.075	0.18	PQL	ug/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	ALPHA-BHC DELTA-BHC	J J	0.057 0.056	0.19 0.19	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	ALPHA-BHC DELTA-BHC gamma-BHC (Lindane)	J J J	0.090 0.15 0.036	0.18 0.18 0.18	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	HEPTACHLOR	J	0.46	0.87	PQL	ug/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	BETA-BHC	J	0.080	0.18	PQL	ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	ALPHA-BHC	J	0.14	0.18	PQL	ug/Kg	J (all detects)
SL-196-SA5B-SS-0.0-0.5	ALDRIN ALPHA-BHC gamma-BHC (Lindane)	J J J	0.084 0.043 0.048	0.17 0.17 0.17	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	BETA-BHC	J	0.14	0.18	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.1 2.6	1.9 3.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	AROCLOR 1254 Aroclor 5460	J J	2.5 6.6	3.7 7.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	Aroclor 5460	J	7.0	7.5	PQL	ug/Kg	J (all detects)
SL-172-SA5B-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	0.92 2.1	1.8 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	3.0 1.1 5.0	3.7 3.7 7.1	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-189-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	1.3 0.86 2.7	1.8 1.8 3.5	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-192-SA5B-SS-0.0-0.5	AROCLOR 1254 AROCLOR 1260	J J	3.3 5.5	9.1 9.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.0	3.7	PQL	ug/Kg	J (all detects)
SL-198-SA5B-SS-0.0-0.5	Aroclor 5460	J	3.2	3.5	PQL	ug/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	Aroclor 5460	J	2.2	3.5	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	2,4-D DICAMBA	J J	1.9 0.59	4.0 1.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	DICAMBA	J	0.78	1.4	PQL	ug/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	2,4-D DICAMBA MCPP	J J J	1.9 0.49 220	4.1 1.4 280	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	DICAMBA	J	0.73	1.6	PQL	ug/Kg	J (all detects)
SED-020-SIV-SD-0.0-0.5	DICAMBA	J	0.57	1.3	PQL	ug/Kg	J (all detects)
SL-147-SA5B-SS-0.0-0.5	MCPA	J	260	290	PQL	ug/Kg	J (all detects)
SL-176-SA5B-SS-0.0-0.5	DICHLOROPROP	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-178-SA5B-SS-0.0-0.5	DICAMBA	J	0.55	1.5	PQL	ug/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	DICAMBA	J	0.52	1.3	PQL	ug/Kg	J (all detects)
SL-189-SA5B-SS-0.0-0.5	DICAMBA	J	0.49	1.3	PQL	ug/Kg	J (all detects)
SL-192-SA5B-SS-0.0-0.5	DICAMBA	J	0.84	1.3	PQL	ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	DICAMBA	J	0.46	1.3	PQL	ug/Kg	J (all detects)
SL-199-SA5B-SS-0.0-0.5	MCPP	J	220	270	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	95	370	PQL	ug/Kg	J (all detects)
SED-013-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	380	PQL	ug/Kg	J (all detects)
SED-017-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	380	PQL	ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	24	220	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	120	450	PQL	ug/Kg	
	Butylbenzylphthalate	J	42	220	PQL	ug/Kg	
	CHRYSENE	J	37	220	PQL	ug/Kg	
	Di-n-butylphthalate	J	26	220	PQL	ug/Kg	
	FLUORANTHENE	J	71	220	PQL	ug/Kg	
	PYRENE	J	47	220	PQL	ug/Kg	
SL-147-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	44	380	PQL	ug/Kg	J (all detects)
SL-169-SA5B-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	72	190	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	380	PQL	ug/Kg	
	FLUORANTHENE	J	21	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	82	190	PQL	ug/Kg	
SL-173-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	49	360	PQL	ug/Kg	J (all detects)
SL-178-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	43	430	PQL	ug/Kg	J (all detects)
SL-186-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	360	PQL	ug/Kg	J (all detects)
SL-187-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	81	350	PQL	ug/Kg	J (all detects)
SL-192-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	47	360	PQL	ug/Kg	J (all detects)
SL-194-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	370	PQL	ug/Kg	J (all detects)
SL-202-SA5B-SS-0.0-0.5	FLUORANTHENE	J	59	180	PQL	ug/Kg	J (all detects)
	PYRENE	J	57	180	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	ANTHRACENE	J	0.40	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.6	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.8	PQL	ug/Kg	
SED-013-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.9	PQL	ug/Kg	
SED-017-SIV-SD-0.0-0.5	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
SED-019-SIV-SD-0.0-0.5	ANTHRACENE	J	6.0	11	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	9.7	11	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	8.6	11	PQL	ug/Kg	
	NAPHTHALENE	J	9.0	11	PQL	ug/Kg	
SL-169-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.90	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-172-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.86	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.82	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.94	1.8	PQL	ug/Kg	
SL-173-SA5B-SS-0.0-0.5	ACENAPHTHENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.94	1.8	PQL	ug/Kg	
	ANTHRACENE	J	1.4	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
	FLUORENE	J	1.3	1.8	PQL	ug/Kg	
SL-176-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.0	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	
SL-178-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.86	2.1	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	2.1	PQL	ug/Kg	
	ANTHRACENE	J	0.87	2.1	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.8	23	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	2.1	PQL	ug/Kg	
SL-186-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.94	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.8	PQL	ug/Kg	
SL-189-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.85	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.96	1.8	PQL	ug/Kg	
SL-192-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.44	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.80	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-194-SA5B-SS-0.0-0.5	ACENAPHTHYLENE	J	0.45	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.5	1.8	PQL	ug/Kg	
SL-196-SA5B-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	1.8	PQL	ug/Kg	
	ANTHRACENE	J	0.41	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.93	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.96	1.8	PQL	ug/Kg	
SL-198-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	3.9	8.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	8.6	8.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	7.6	8.9	PQL	ug/Kg	
	FLUORANTHENE	J	4.5	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	4.7	8.9	PQL	ug/Kg	
	PYRENE	J	4.4	8.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE042 **Laboratory: LL**

EDD Filename: DE042_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-199-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.94	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.8	PQL	ug/Kg	
	PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-202-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.4	8.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	6.0	8.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.4	8.9	PQL	ug/Kg	
	CHRYSENE	J	8.6	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	4.8	8.9	PQL	ug/Kg	

LDC #: 25550C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/11
SDG #: DE042 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Pb, Mg, Mn, Ti, Zn >4x)
VII.	Duplicate Sample Analysis	N	Dup (Cd <5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SED-011-SIV-SD-0.0-0.5	11	SL-178-SA5B-SS-0.0-0.05	21	SL-189-SA5B-SS-0.0-0.05MS	31	
2	SED-013-SIV-SD-0.0-0.5	12	SL-186-SA5B-SS-0.0-0.05	22	SL-189-SA5B-SS-0.0-0.05MSD	32	
3	SED-017-SIV-SD-0.0-0.5	13	SL-187-SA5B-SS-0.0-0.05	23	SL-189-SA5B-SS-0.0-0.05DUP	33	
4	SED-019-SIV-SD-0.0-0.5	14	SL-189-SA5B-SS-0.0-0.05	24		34	
5	SED-020-SIV-SD-0.0-0.5	15	SL-192-SA5B-SS-0.0-0.05	25		35	
6	SL-147-SA5B-SS-0.0-0.05	16	SL-194-SA5B-SS-0.0-0.05	26		36	
7	SL-169-SA5B-SS-0.0-0.05	17	SL-196-SA5B-SS-0.0-0.05	27		37	
8	SL-172-SA5B-SS-0.0-0.05	18	SL-198-SA5B-SS-0.0-0.05	28		38	
9	SL-173-SA5B-SS-0.0-0.05	19	SL-199-SA5B-SS-0.0-0.05	29		39	
10	SL-176-SA5B-SS-0.0-0.05	20	SL-202-SA5B-SS-0.0-0.05	30		40	

Notes:

LDC #: 25550-4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer: ✓

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-20		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC: 21-23		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Analysis Method
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, ~~Sr, Sn, Ti, Zr~~
ICP-MS		Sb, ~~As, Ba, Be,~~ Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25550C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x ICPMS (2dil)
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Reason: B

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	5	6	7	8	9	10	12	13	14	15	16	17	19	20	
Sb	0.33	0.33	0.19	0.19	0.21	0.19	0.32	0.24	0.21	0.22	0.19	0.22	0.19	0.21	0.25	0.21	0.21	0.16	0.19	

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 9
SERIAL DILUTIONS
SDG No.: DE042
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6167481BKG Serial Dilution Lab Sample ID: 6167481L
Batch ID(s): P35408B, P35426B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		139327.9700		135574.3500		3		P
Antimony	121	0.9861	B	1.5000	U	100		MS
Arsenic	75	25.4300		30.8400		21		MS
Barium	137	551.8000		637.5000		16	E	MS
Beryllium	9	2.9430		3.3320		13		MS
Boron		40.1100	B	70.0000	B	75		P
Cadmium	111	1.0690		1.1805	B	10		MS
Calcium		30495.6600		32283.6000		6		P
Chromium	52	94.9100		127.5000		34	E	MS
Cobalt	59	30.4400		51.2000		68	E	MS
Copper	63	50.4500		70.7500		40	E	MS
Iron		183079.3200		180921.8500		1		P
Lead	208	64.1700		76.2000		19	E	MS
Lithium		161.7500		180.7000		12	E	P
Magnesium		32831.9100		34726.7500		6		P
Manganese		3319.5000		3469.5000		5		P
Molybdenum	98	3.9050		6.5800		69		MS
Nickel	60	64.0700		89.9500		40	E	MS
Phosphorus		2368.3100		2452.7500		4		P
Potassium		27995.6800		29640.5000		6		P
Selenium	78	0.6638	B	1.0000	U	100		MS
Silver	107	0.4671	B	1.8965	B	306		MS
Sodium		889.4100	B	1865.0000	U	100		P
Strontium		224.0500		231.1000		3		P
Thallium	203	1.6650		1.8905	B	14		MS
Tin		22.5800	B	50.0000	U	100		P
Titanium		11411.6600		11969.7000		5		P
Vanadium	51	176.8000		236.6500		34	E	MS
Zinc	66	266.9000		297.4000		11		MS
Zirconium		21.0900	B	42.0000	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.

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

CONCENTRATION QUALIFIERS: DE642 3453
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE045

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	TB-121710	6169030	TB	5030B	8015M	III
17-Dec-2010	TB-121710	6169030	TB	5030B	8260B	III
17-Dec-2010	TB-121710	6169030	TB	5030B	8260B SIM	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3050B	6010B	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3050B	6020	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3060A	7199	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8081A	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8082	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8151A	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8270C	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	3550B	8270C SIM	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	Gen Prep	9045M	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	METHOD	300.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	METHOD	314.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169019	N	METHOD	7471A	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5DUP	P169019D271620A	DUP	METHOD	314.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5DUP	P169019D271741A	DUP	METHOD	300.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5DUP	P169019D291545B	DUP	Gen Prep	9045M	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5MS	P169019R271643A	MS	METHOD	314.0	III
17-Dec-2010	SED-014-SIV-SD-0.0-0.5MS	P169019R271755A	MS	METHOD	300.0	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3050B	6010B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3050B	6020	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3060A	7199	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3546	1625C	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8015B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8082	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8270C	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	3550B	8270C SIM	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	5035	8015M	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	5035	8260B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	5035	8260B SIM	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	8330	8330A	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	Gen Prep	9045M	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	300.0	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	314.0	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	7471A	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	8015B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	8015M	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	8315A	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169024	N	METHOD	9012B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0MSD	P169024M321741A	MSD	3550B	8015B	III
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0MS	P169024R321657A	MS	3550B	8015B	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3050B	6010B	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3050B	6020	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3060A	7199	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8081A	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8082	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8151A	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8270C	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	3550B	8270C SIM	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	Gen Prep	9045M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	METHOD	300.0	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	METHOD	314.0	III
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169020	N	METHOD	7471A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3050B	6010B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3050B	6020	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3060A	7199	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3546	1625C	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8015B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8015M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8082	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8270C	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	3550B	8270C SIM	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	5035	8015M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	5035	8260B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	5035	8260B SIM	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	8330	8330A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	Gen Prep	9045M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	300.0	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	314.0	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	7471A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	8015B	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	8015M	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	8315A	III
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169025	N	METHOD	9012B	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3050B	6010B	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	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
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3060A	7199	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8081A	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8082	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8151A	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8270C	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	3550B	8270C SIM	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	Gen Prep	9045M	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	METHOD	300.0	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	METHOD	314.0	III
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169023	N	METHOD	7471A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3050B	6010B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3050B	6020	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3060A	7199	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3546	1625C	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8015B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8015M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8082	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8270C	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	3550B	8270C SIM	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	5035	8015M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	5035	8260B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	5035	8260B SIM	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	8330	8330A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	Gen Prep	9045M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	300.0	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	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
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	7471A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	8015B	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	8015M	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	8315A	III
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169026	N	METHOD	9012B	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3005A	6010B	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3020A	6020	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8081A	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8082	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8270C	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	3510C	8270C SIM	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	Gen Prep	300.0	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	Gen Prep	314.0	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	Gen Prep	7199	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	METHOD	7470A	III
17-Dec-2010	EB05-SA5B-121710	6169017	EB	METHOD	8151A	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3005A	6010B	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3020A	6020	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8081A	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8082	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8270C	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	3510C	8270C SIM	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	Gen Prep	300.0	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	Gen Prep	314.0	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	Gen Prep	7199	III
17-Dec-2010	EB01-SIV-121710	6169018	EB	METHOD	7470A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	EB01-SIV-121710	6169018	EB	METHOD	8151A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3050B	6010B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3050B	6020	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3060A	7199	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3546	1625C	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8015B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8015M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8082	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8270C	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	3550B	8270C SIM	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	5035	8015M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	5035	8260B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	5035	8260B SIM	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	8330	8330A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	Gen Prep	9045M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	300.0	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	314.0	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	7471A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	8015B	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	8015M	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	8315A	III
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169027	N	METHOD	9012B	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3050B	6010B	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3050B	6020	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3060A	7199	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	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
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8082	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8151A	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8270C	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	3550B	8270C SIM	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	Gen Prep	9045M	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	METHOD	300.0	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	METHOD	314.0	III
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169022	N	METHOD	7471A	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3050B	6010B	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3050B	6020	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3060A	7199	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8081A	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8082	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8151A	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8270C	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	3550B	8270C SIM	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	Gen Prep	9045M	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	METHOD	300.0	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	METHOD	314.0	III
17-Dec-2010	DUP08-SA5B-QC-121710	6169016	FD	METHOD	7471A	III
17-Dec-2010	DUP08-SA5B-QC-121710MSD	P169016M240518A	MSD	3550B	8151A	III
17-Dec-2010	DUP08-SA5B-QC-121710MS	P169016R240450A	MS	3550B	8151A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3050B	6010B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3050B	6020	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3060A	7199	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8015B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8015M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8082	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8270C	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	3550B	8270C SIM	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	5035	8015M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	5035	8260B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	5035	8260B SIM	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	8330	8330A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	Gen Prep	9045M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	7471A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	8015B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	8015M	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	8315A	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169028	N	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0DUP	P169028D271852A	DUP	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0DUP	P169028D272100B	DUP	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0DUP	P169028D272143B	DUP	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0MS	P169028R271853A	MS	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0MS	P169028R272114B	MS	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0MS	P169028R272206B	MS	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3050B	6010B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3050B	6020	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	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
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3546	1625C	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8015B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8015M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8082	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8270C	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	3550B	8270C SIM	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	5035	8015M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	5035	8260B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	5035	8260B SIM	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	8330	8330A	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	Gen Prep	9045M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	300.0	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	314.0	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	7471A	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	8015B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	8015M	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	8315A	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169029	N	METHOD	9012B	III
17-Dec-2010	SL-026-SA5B-SB-9.0-10DUP	P169029D291740A	DUP	Gen Prep	9045M	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3050B	6010B	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3050B	6020	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3060A	7199	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8081A	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8082	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8151A	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	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
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	3550B	8270C SIM	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	Gen Prep	9045M	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	METHOD	300.0	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	N	METHOD	314.0	III
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169021	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: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.94	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab, Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 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	4.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.91	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 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
Nitrate-NO3	1.2	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP08-SA5B-QC-121710 ***Collected:*** 12/17/2010 2:07:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.08	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.80	J	0.897	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SED-001-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 12:41:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	110	J	41.6	MDL	112	PQL	mg/Kg	J	Z
TIN	2.27	J	1.12	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.21	J	0.937	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 11:42:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.30	J	1.24	MDL	12.4	PQL	mg/Kg	U	B

Sample ID: SED-006-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 3:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	113	J	44.8	MDL	120	PQL	mg/Kg	J	Z
TIN	2.79	J	1.20	MDL	12.0	PQL	mg/Kg	U	B

Sample ID: SED-012-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 10:24:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.1	J	39.6	MDL	106	PQL	mg/Kg	J	Z
TIN	2.05	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.57	J	0.892	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 8:44:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	101	J	43.4	MDL	116	PQL	mg/Kg	J	Z
TIN	2.99	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.978	MDL	5.82	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 Laboratory: LL

EDD Filename: PrepDE045_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.43	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.01	J	0.936	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.31	J	0.943	MDL	5.30	PQL	mg/Kg	J	Z
TIN	2.36	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.890	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.56	J	1.18	MDL	11.8	PQL	mg/Kg	U	B

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.56	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.12	J	0.959	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	59.8	J	40.0	MDL	107	PQL	mg/Kg	J	Z
TIN	1.98	J	1.07	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.901	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.955	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.08	J	0.937	MDL	5.27	PQL	mg/Kg	J	Z
SODIUM	83.3	J	39.3	MDL	105	PQL	mg/Kg	J	Z
TIN	2.05	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.885	MDL	5.27	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0659	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	11.8		0.0659	MDL	0.440	PQL	mg/Kg	J	Q
CADMIUM	1.70		0.0396	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	47.2		0.132	MDL	0.440	PQL	mg/Kg	J	Q
COBALT	8.63		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	39.6		0.0725	MDL	0.440	PQL	mg/Kg	J	Q
LEAD	21.6		0.0114	MDL	0.220	PQL	mg/Kg	J	Q
NICKEL	23.4		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
VANADIUM	59.1		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.266	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.31		0.0550	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0663	MDL	0.221	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 Laboratory: LL

EDD Filename: PrepDE045_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.32		0.0663	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.457		0.0398	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	26.7		0.133	MDL	0.442	PQL	mg/Kg	J	Q
COBALT	7.38		0.0221	MDL	0.110	PQL	mg/Kg	J	A
COPPER	13.2		0.0729	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	15.3		0.0115	MDL	0.221	PQL	mg/Kg	J	Q
NICKEL	16.0		0.110	MDL	0.442	PQL	mg/Kg	J	Q, A
SILVER	0.0983	J	0.0133	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	48.4		0.0243	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.230	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SED-004-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 11:42:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0721	MDL	0.240	PQL	mg/Kg	J	Z, Q
ARSENIC	8.81		0.0721	MDL	0.481	PQL	mg/Kg	J	Q
CADMIUM	0.371		0.0433	MDL	0.120	PQL	mg/Kg	J	Q
CHROMIUM	43.6		0.144	MDL	0.481	PQL	mg/Kg	J	Q
COBALT	11.6		0.0240	MDL	0.120	PQL	mg/Kg	J	A
COPPER	17.8		0.0793	MDL	0.481	PQL	mg/Kg	J	Q
LEAD	12.9		0.0125	MDL	0.240	PQL	mg/Kg	J	Q
NICKEL	21.8		0.120	MDL	0.481	PQL	mg/Kg	J	Q, A
SILVER	0.0368	J	0.0144	MDL	0.120	PQL	mg/Kg	J	Z
VANADIUM	83.9		0.0264	MDL	0.120	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-004-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 11:42:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.614		0.0601	MDL	0.120	PQL	mg/Kg	J	Q

Sample ID: SED-006-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 3:25:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0734	MDL	0.245	PQL	mg/Kg	J	Z, Q
ARSENIC	7.45		0.0734	MDL	0.490	PQL	mg/Kg	J	Q
CADMIUM	0.752		0.0441	MDL	0.122	PQL	mg/Kg	J	Q
CHROMIUM	38.0		0.147	MDL	0.490	PQL	mg/Kg	J	Q
COBALT	10.3		0.0245	MDL	0.122	PQL	mg/Kg	J	A
COPPER	17.7		0.0808	MDL	0.490	PQL	mg/Kg	J	Q
LEAD	31.1		0.0127	MDL	0.245	PQL	mg/Kg	J	Q
NICKEL	21.8		0.122	MDL	0.490	PQL	mg/Kg	J	Q, A
SILVER	0.0845	J	0.0147	MDL	0.122	PQL	mg/Kg	J	Z
VANADIUM	68.9		0.0269	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SED-006-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 3:25:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0490	MDL	0.490	PQL	mg/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 3:25:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.893		0.0612	MDL	0.122	PQL	mg/Kg	J	Q

Sample ID: SED-012-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 10:24:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.100	J	0.0607	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.73		0.0607	MDL	0.404	PQL	mg/Kg	J	Q
CADMIUM	0.157		0.0364	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	15.3		0.121	MDL	0.404	PQL	mg/Kg	J	Q
COBALT	4.48		0.0202	MDL	0.101	PQL	mg/Kg	J	A
COPPER	7.46		0.0667	MDL	0.404	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	9.90		0.0105	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	9.76		0.101	MDL	0.404	PQL	mg/Kg	J	Q, A
SILVER	0.0246	J	0.0121	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	32.1		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0404	MDL	0.404	PQL	mg/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.478		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0692	MDL	0.231	PQL	mg/Kg	J	Z, Q
ARSENIC	5.93		0.0692	MDL	0.461	PQL	mg/Kg	J	Q
CADMIUM	0.279		0.0415	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	22.9		0.138	MDL	0.461	PQL	mg/Kg	J	Q
COBALT	8.83		0.0231	MDL	0.115	PQL	mg/Kg	J	A
COPPER	10.8		0.0761	MDL	0.461	PQL	mg/Kg	J	Q
LEAD	12.2		0.0120	MDL	0.231	PQL	mg/Kg	J	Q
NICKEL	14.4		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0350	J	0.0138	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	47.2		0.0254	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.239	J	0.0461	MDL	0.461	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.09		0.0577	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.137	J	0.0668	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	8.38		0.0668	MDL	0.445	PQL	mg/Kg	J	Q
CADMIUM	0.211		0.0401	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	39.6		0.134	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	9.07		0.0223	MDL	0.111	PQL	mg/Kg	J	A
COPPER	15.0		0.0735	MDL	0.445	PQL	mg/Kg	J	Q
LEAD	10.5		0.0116	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	21.8		0.111	MDL	0.445	PQL	mg/Kg	J	Q, A
SILVER	0.0298	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	72.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0445	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.482		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0835	J	0.0636	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	7.37		0.0636	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.0665	J	0.0382	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	27.9		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	6.61		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	10.8		0.0700	MDL	0.424	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	8.34		0.0110	MDL	0.212	PQL	mg/Kg	J	Q
NICKEL	14.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
SILVER	0.0313	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	49.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0900	J	0.0424	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.407		0.0530	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.172	J	0.0710	MDL	0.237	PQL	mg/Kg	J	Z, Q
ARSENIC	9.29		0.0710	MDL	0.473	PQL	mg/Kg	J	Q
CADMIUM	0.304		0.0426	MDL	0.118	PQL	mg/Kg	J	Q
CHROMIUM	47.4		0.142	MDL	0.473	PQL	mg/Kg	J	Q
COBALT	11.1		0.0237	MDL	0.118	PQL	mg/Kg	J	A
COPPER	20.1		0.0781	MDL	0.473	PQL	mg/Kg	J	Q
LEAD	13.7		0.0123	MDL	0.237	PQL	mg/Kg	J	Q
NICKEL	23.4		0.118	MDL	0.473	PQL	mg/Kg	J	Q, A
SILVER	0.0599	J	0.0142	MDL	0.118	PQL	mg/Kg	J	Z
VANADIUM	79.5		0.0260	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.197	J	0.0473	MDL	0.473	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-281-SA5B-SB-4.0-5.0 **Collected:** 12/17/2010 12:30:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.552		0.0591	MDL	0.118	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-8.0-9.0 **Collected:** 12/17/2010 12:37:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	J	0.0659	MDL	0.220	PQL	mg/Kg	J	Z, Q
ARSENIC	6.74		0.0659	MDL	0.439	PQL	mg/Kg	J	Q
CADMIUM	0.116		0.0395	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.0		0.132	MDL	0.439	PQL	mg/Kg	J	Q
COBALT	7.60		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	9.54		0.0724	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	8.13		0.0114	MDL	0.220	PQL	mg/Kg	J	Q
NICKEL	15.4		0.110	MDL	0.439	PQL	mg/Kg	J	Q, A
SILVER	0.0637	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	51.8		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA5B-SB-8.0-9.0 **Collected:** 12/17/2010 12:37:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0439	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0 **Collected:** 12/17/2010 12:37:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.819		0.0549	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-4.0-5.0 **Collected:** 12/17/2010 10:20:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0644	U	0.0644	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	3.87		0.0644	MDL	0.429	PQL	mg/Kg	J	Q
CADMIUM	0.188		0.0386	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	19.8		0.129	MDL	0.429	PQL	mg/Kg	J	Q
COBALT	6.01		0.0215	MDL	0.107	PQL	mg/Kg	J	A
COPPER	9.66		0.0708	MDL	0.429	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.93		0.0112	MDL	0.215	PQL	mg/Kg	J	Q
NICKEL	12.7		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0388	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	38.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0429	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0536	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.105	J	0.0632	MDL	0.211	PQL	mg/Kg	J	Z, Q
ARSENIC	4.22		0.0632	MDL	0.421	PQL	mg/Kg	J	Q
CADMIUM	0.229		0.0379	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	21.0		0.126	MDL	0.421	PQL	mg/Kg	J	Q
COBALT	6.15		0.0211	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.4		0.0695	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	5.86		0.0110	MDL	0.211	PQL	mg/Kg	J	Q
NICKEL	13.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q, A
SILVER	0.0361	J	0.0126	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	39.3		0.0232	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *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	0.0421	MDL	0.421	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.748		0.0527	MDL	0.105	PQL	mg/Kg	J	Q

Method Category: METALS **Method:** 7199 **Matrix:** AQ

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 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	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Sample ID: EB05-SA5B-121710 *Collected:* 12/17/2010 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	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

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

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *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	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 11:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 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	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *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-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 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	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

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

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

Sample ID: DUP08-SA5B-QC-121710 ***Collected:*** 12/17/2010 2:07:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0498	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 11:42:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0343	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0233	J	0.0034	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 10:24:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0029	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 8:44:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0209	J	0.0032	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0 ***Collected:*** 12/17/2010 12:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0092	J	0.0033	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0 ***Collected:*** 12/17/2010 12:37:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0034	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 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
N-NITROSODIMETHYLAMINE	19.3	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	27.7	J	19.0	MDL	38.1	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *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	14	PQL	mg/Kg	UJ	S
ETHYLENE GLYCOL	6.6	U	6.6	MDL	14	PQL	mg/Kg	UJ	S
Propylene glycol	8.7	U	8.7	MDL	14	PQL	mg/Kg	UJ	S

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	1.1	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.074	J	0.041	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SED-004-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 11:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
4,4'-DDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
4,4'-DDT	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ALDRIN	0.082	U	0.082	MDL	0.21	PQL	ug/Kg	R	S
ALPHA-BHC	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	R	S
BETA-BHC	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	R	S
Chlordane	0.99	U	0.99	MDL	4.2	PQL	ug/Kg	R	S
DELTA-BHC	0.045	U	0.045	MDL	0.21	PQL	ug/Kg	R	S
DIELDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDOSULFAN I	0.054	U	0.054	MDL	0.21	PQL	ug/Kg	R	S
ENDOSULFAN II	0.14	U	0.14	MDL	0.42	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
ENDRIN KETONE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	R	S
METHOXYCHLOR	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	R	S
MIREX	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	R	S
TOXAPHENE	2.7	U	2.7	MDL	8.2	PQL	ug/Kg	R	S

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.3	U	1.3	MDL	1.3	PQL	ug/Kg	UJ	S
4,4'-DDE	1.0	U	1.0	MDL	1.0	PQL	ug/Kg	UJ	S
4,4'-DDT	1.2	U	1.2	MDL	1.2	PQL	ug/Kg	UJ	S
ALDRIN	0.082	U	0.082	MDL	0.21	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.080	U	0.080	MDL	0.21	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.075	U	0.075	MDL	0.21	PQL	ug/Kg	UJ	S
Chlordane	4.1	U	4.1	MDL	4.2	PQL	ug/Kg	UJ	S
DELTA-BHC	0.14	J	0.045	MDL	0.21	PQL	ug/Kg	J	Z, S
DIELDRIN	0.50	U	0.50	MDL	0.50	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.43	U	0.43	MDL	0.43	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.31	U	0.31	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.11	U	0.11	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.36	U	0.36	MDL	0.42	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.075	U	0.075	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.072	U	0.072	MDL	0.21	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	UJ	S
MIREX	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
TOXAPHENE	2.7	U	2.7	MDL	8.2	PQL	ug/Kg	UJ	S

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.35	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
DIELDRIN	0.12	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.11	J	0.042	MDL	0.20	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** AQ

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 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
Aroclor 5432	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: AQ**

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 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
Aroclor 5442	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	L

Sample ID: EB05-SA5B-121710 *Collected:* 12/17/2010 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
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	11		1.1	MDL	3.7	PQL	ug/Kg	J	L

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	43		0.75	MDL	3.9	PQL	ug/Kg	J	S
AROCLOR 1260	18		0.75	MDL	3.9	PQL	ug/Kg	J	S
Aroclor 5432	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5442	2.3	U	2.3	MDL	7.5	PQL	ug/Kg	UJ	L
Aroclor 5460	8.2		2.3	MDL	7.5	PQL	ug/Kg	J	S, L

Sample ID: SED-004-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 11:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	4.1	PQL	ug/Kg	UJ	L
Aroclor 5460	7.6		1.2	MDL	4.1	PQL	ug/Kg	J	L

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	L

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *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	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	4.8		1.2	MDL	3.9	PQL	ug/Kg	J	L

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *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	0.49	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 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
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.52	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *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	0.71	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* RES *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	55	U	55	MDL	180	PQL	ug/Kg	UJ	L
Aroclor 5442	55	U	55	MDL	180	PQL	ug/Kg	UJ	L
Aroclor 5460	55	U	55	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.62	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-004-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 11:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.78	J	0.50	MDL	1.5	PQL	ug/Kg	J	Z
DICHLOROPROP	2.0	J	1.0	MDL	2.1	PQL	ug/Kg	J	Z
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.77	J	0.42	MDL	1.3	PQL	ug/Kg	J	Z
DINOSEB	0.85	U	0.85	MDL	2.5	PQL	ug/Kg	R	L
MCPP	240	J	80	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 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
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 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
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	20	U	20	MDL	59	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	15	PQL	ug/L	UJ	E

Sample ID: EB05-SA5B-121710 *Collected:* 12/17/2010 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
1,3-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
1,4-DICHLOROBENZENE	1	U	1	MDL	5	PQL	ug/L	UJ	L
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	20	U	20	MDL	60	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E
HEXACHLOROCYCLOPENTADIENE	5	U	5	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

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

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 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
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BENZO(G,H,I)PERYLENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.29	J	0.052	MDL	1.0	PQL	ug/L	U	B
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
Diethylphthalate	0.054	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.23	J	0.052	MDL	1.0	PQL	ug/L	U	B
INDENO(1,2,3-CD)PYRENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
NAPHTHALENE	0.051	J	0.010	MDL	0.052	PQL	ug/L	J	Z, L
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L
PHENANTHRENE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: EB05-SA5B-121710 *Collected:* 12/17/2010 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
2-METHYLNAPHTHALENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
BENZO(G,H,I)PERYLENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	0.33	J	0.051	MDL	1.0	PQL	ug/L	U	B
DIBENZO(A,H)ANTHRACENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
Diethylphthalate	0.11	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.50	J	0.051	MDL	1.0	PQL	ug/L	U	B
INDENO(1,2,3-CD)PYRENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
NAPHTHALENE	0.029	J	0.010	MDL	0.051	PQL	ug/L	J	Z, L
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L
PHENANTHRENE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L

Method Category: SVOA

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

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.94	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.82	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
Butylbenzylphthalate	7.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	0.63	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.96	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.1	J	6.8	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-004-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 11:42:00 ***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	8.2	J	7.4	MDL	22	PQL	ug/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 3:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.55	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
ANTHRACENE	0.83	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.7	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.7	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
Butylbenzylphthalate	13	J	7.5	MDL	22	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.0	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 10:24:00 ***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	0.95	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(G,H,I)PERYLENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Butylbenzylphthalate	12	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 ***Collected:*** 12/17/2010 8:44:00 ***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	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	7.1	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *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	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
FLUORENE	1.9	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.91	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.98	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *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	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.2	MDL	22	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.1	J	7.2	MDL	22	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 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
ANTHRACENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	14	J	6.6	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	240	J	110	MDL	560	PQL	ug/Kg	J	Z

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	220	J	110	MDL	550	PQL	ug/Kg	J	Z

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	550	J	120	MDL	600	PQL	ug/Kg	J	Z

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	330	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* RES *Dilution:* 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.93	J	0.28	MDL	4.7	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.7	PQL	ug/Kg	U	B

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *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	0.62	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory:** LL

EDD Filename: PrepDE045_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.73	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	7.4	J	1.4	MDL	9.3	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.81	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.16	J	0.09	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *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	0.96	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-BUTANONE (MEK)	5.8	J	1.2	MDL	7.9	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	0.85	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE045

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE045 **Laboratory: LL**
EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB01-SIV-121710 (RES)	Sampling To Analysis	25.00	24.00	HOURS	J (all detects)
EB05-SA5B-121710 (RES)		25.00	24.00	HOURS	UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE045 | Laboratory: LL

EDD Filename: DE045_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35548CB221648	12/23/2010 4:48:00 PM	MAGNESIUM	0.0421 mg/L	EB01-SIV-121710 EB05-SA5B-121710
P35548CB222358	12/22/2010 11:58:00 PM	CALCIUM	0.0960 mg/L	EB01-SIV-121710 EB05-SA5B-121710

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35708EB221714	12/30/2010 5:14:00 PM	ALUMINUM CALCIUM IRON PHOSPHORUS STRONTIUM TIN	16.5 mg/Kg 13.9 mg/Kg 6.65 mg/Kg 1.41 mg/Kg 0.0782 mg/Kg 1.13 mg/Kg	DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.5 SED-004-SIV-SD-0.0-0.5 SED-006-SIV-SD-0.0-0.5 SED-012-SIV-SD-0.0-0.5 SED-014-SIV-SD-0.0-0.5 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-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
DUP08-SA5B-QC-121710(REA2)	TIN	3.08 mg/Kg	3.08U mg/Kg
SED-001-SIV-SD-0.0-0.5(REA2)	TIN	2.27 mg/Kg	2.27U mg/Kg
SED-004-SIV-SD-0.0-0.5(REA2)	TIN	2.30 mg/Kg	2.30U mg/Kg
SED-006-SIV-SD-0.0-0.5(REA2)	TIN	2.79 mg/Kg	2.79U mg/Kg
SED-012-SIV-SD-0.0-0.5(REA2)	TIN	2.05 mg/Kg	2.05U mg/Kg
SED-014-SIV-SD-0.0-0.5(REA2)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-026-SA5B-SB-4.0-5.0(REA2)	TIN	2.43 mg/Kg	2.43U mg/Kg
SL-026-SA5B-SB-9.0-10(REA2)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-281-SA5B-SB-4.0-5.0(REA2)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-281-SA5B-SB-8.0-9.0(REA2)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-282-SA5B-SB-4.0-5.0(REA2)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-282-SA5B-SB-7.0-8.0(REA2)	TIN	2.05 mg/Kg	2.05U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35726BB220955A	1/3/2011 9:55:00 AM	COPPER LEAD NICKEL ZINC	0.203 mg/Kg 0.0114 mg/Kg 0.121 mg/Kg 0.601 mg/Kg	DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.5 SED-004-SIV-SD-0.0-0.5 SED-006-SIV-SD-0.0-0.5 SED-012-SIV-SD-0.0-0.5 SED-014-SIV-SD-0.0-0.5 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB22B212231A	12/20/2010 10:31:00 PM	METHYLENE CHLORIDE TOLUENE	0.50 ug/Kg 0.11 ug/Kg	SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-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-026-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.93 ug/Kg	4.7U ug/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.7U ug/Kg
SL-026-SA5B-SB-9.0-10(RES)	METHYLENE CHLORIDE	0.62 ug/Kg	3.9U ug/Kg
SL-026-SA5B-SB-9.0-10(RES)	TOLUENE	0.08 ug/Kg	3.9U ug/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.73 ug/Kg	4.5U ug/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.5U ug/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	METHYLENE CHLORIDE	0.81 ug/Kg	4.6U ug/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	TOLUENE	0.16 ug/Kg	4.6U ug/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.96 ug/Kg	4.1U ug/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	4.1U ug/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	METHYLENE CHLORIDE	0.85 ug/Kg	4.0U ug/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	TOLUENE	0.12 ug/Kg	4.0U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWI35B260727	1/5/2011 7:27:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate Di-n-octylphthalate	0.19 ug/L 0.099 ug/L 0.16 ug/L 0.18 ug/L	EB01-SIV-121710 EB05-SA5B-121710

Method Blank Outlier Report

Lab Reporting Batch ID: DE045 | Laboratory: LL

EDD Filename: DE045_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
EB01-SIV-121710(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.29 ug/L	1.0U ug/L
EB01-SIV-121710(RES)	Di-n-butylphthalate	0.23 ug/L	1.0U ug/L
EB05-SA5B-121710(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.33 ug/L	1.0U ug/L
EB05-SA5B-121710(RES)	Di-n-butylphthalate	0.50 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_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-026-SA5B-SB-4.0-5.0MS (SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	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
DUP08-SA5B-QC-121710MS	DICAMBA	145	-	33.00-120.00	-	DICAMBA	J(all detects)
DUP08-SA5B-QC-121710MSD (DUP08-SA5B-QC-121710)	DICHLOROPROP	187	158	55.00-141.00	-	DICHLOROPROP	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_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
P03552AQ240840A P03552AY240822A (EB01-SIV-121710 EB05-SA5B-121710)	Aroclor 5442	44	44	75.00-125.00	-	Aroclor 5432, 5442, 5460	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
P4WILCSQ260758 P4WILCSY260830 (EB01-SIV-121710 EB05-SA5B-121710)	2-METHYLNAPHTHALENE	69	67	75.00-115.00	-	2-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)
	BENZO(G,H,I)PERYLENE	62	-	68.00-125.00	-	BENZO(G,H,I)PERYLENE	
	DIBENZO(A,H)ANTHRACENE	60	65	71.00-125.00	-	DIBENZO(A,H)ANTHRACENE	
	INDENO(1,2,3-CD)PYRENE	60	66	69.00-124.00	-	INDENO(1,2,3-CD)PYRENE	
	NAPHTHALENE	-	71	72.00-109.00	-	NAPHTHALENE	
	N-NITROSODIMETHYLAMINE	54	53	70.00-130.00	-	N-NITROSODIMETHYLAMINE	
	PHENANTHRENE	72	73	76.00-111.00	-	PHENANTHRENE	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4WMLCSQ260623 P4WMLCSY260649 (EB01-SIV-121710 EB05-SA5B-121710)	1,3-DICHLOROBENZENE	62	-	63.00-110.00	-	1,3-DICHLOROBENZENE	J(all detects) UJ(all non-detects)
	1,4-DICHLOROBENZENE	64	-	65.00-113.00	-	1,4-DICHLOROBENZENE	
	4-CHLOROANILINE	-	-	42.00-124.00	40 (30.00)	4-CHLOROANILINE	
	ANILINE	-	-	49.00-101.00	39 (30.00)	ANILINE	
	BENZIDINE	-	-	20.00-109.00	44 (30.00)	BENZIDINE	
	BENZOIC ACID	-	-	10.00-69.00	67 (30.00)	BENZOIC ACID	
	HEXACHLOROCYCLOPENTADI	-	-	10.00-118.00	40 (30.00)	HEXACHLOROCYCLOPENTAD	

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY53Q211359A LCSY53Y211420A (TB-121710)	1,2-DIBROMO-3-CHLOROPROP	124	-	66.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)
	2-BUTANONE (MEK)	157	152	66.00-151.00	-	2-BUTANONE (MEK)	
	2-HEXANONE	146	143	65.00-136.00	-	2-HEXANONE	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_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
P03613AQ240200A P03613AY240141A (DUP08 -SA5B -QC-121710 SED -001-SIV-SD-0.0-0.5 SED -004-SIV-SD-0.0-0.5 SED -006-SIV-SD-0.0-0.5 SED -012-SIV-SD-0.0-0.5 SED -014-SIV-SD-0.0-0.5 SL -026-SA5B -SB-4.0-5.0 SL -026-SA5B -SB-9.0-10 SL -281-SA5B -SB-4.0-5.0 SL -281-SA5B -SB-8.0-9.0 SL -282-SA5B -SB-4.0-5.0 SL -282-SA5B -SB-7.0-8.0)	Aroclor 5442	68	71	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03623AQ240355A (DUP08 -SA5B -QC-121710 SED -001-SIV-SD-0.0-0.5 SED -004-SIV-SD-0.0-0.5 SED -006-SIV-SD-0.0-0.5 SED -012-SIV-SD-0.0-0.5 SED -014-SIV-SD-0.0-0.5)	DINOSEB	6	-	10.00-136.00	-	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
P35726BQ220958A (DUP08 -SA5B -QC-121710 SED -001-SIV-SD-0.0-0.5 SED -004-SIV-SD-0.0-0.5 SED -006-SIV-SD-0.0-0.5 SED -012-SIV-SD-0.0-0.5 SED -014-SIV-SD-0.0-0.5 SL -026-SA5B -SB-4.0-5.0 SL -026-SA5B -SB-9.0-10 SL -281-SA5B -SB-4.0-5.0 SL -281-SA5B -SB-8.0-9.0 SL -282-SA5B -SB-4.0-5.0 SL -282-SA5B -SB-7.0-8.0)	ANTIMONY	63	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: PrepDE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-026-SA5B-SB-9.0-10	TETRAMETHYLENE GLYCOL	27	29.00-137.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP08-SA5B-QC-121710	DECACHLOROBIPHENYL	227	20.00-120.00	All Target Analytes	No Qual Diluted Out
SED-004-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SED-004-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	11	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-006-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	47	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-001-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	150	45.00-120.00	All Target Analytes	J(all detects)
SED-012-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	136	45.00-120.00	All Target Analytes	J(all detects)
SL-026-SA5B-SB-9.0-10	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SIV-121710	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.29	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.054	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.23	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.051	0.052	PQL	ug/L	
EB05-SA5B-121710	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.33	1.0	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.11	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.50	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.029	0.051	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-9.0-10	N-NITROSODIMETHYLAMINE	J	19.3	36.4	PQL	ng/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	N-NITROSODIMETHYLAMINE	J	27.7	38.1	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.8	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	Nitrate-NO3	J	1.4	1.7	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-4.0-5.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	TIN	J	3.08	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.80	5.34	PQL	mg/Kg	
SED-001-SIV-SD-0.0-0.5	SODIUM	J	110	112	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	11.2	PQL	mg/Kg	
	Zirconium	J	4.21	5.58	PQL	mg/Kg	
SED-004-SIV-SD-0.0-0.5	TIN	J	2.30	12.4	PQL	mg/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	SODIUM	J	113	120	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	12.0	PQL	mg/Kg	
SED-012-SIV-SD-0.0-0.5	SODIUM	J	78.1	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.05	10.6	PQL	mg/Kg	
	Zirconium	J	1.57	5.31	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	SODIUM	J	101	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	11.6	PQL	mg/Kg	
	Zirconium	J	2.40	5.82	PQL	mg/Kg	
SL-026-SA5B-SB-4.0-5.0	TIN	J	2.43	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.01	5.57	PQL	mg/Kg	
SL-026-SA5B-SB-9.0-10	BORON	J	4.31	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.6	PQL	mg/Kg	
	Zirconium	J	2.87	5.30	PQL	mg/Kg	
SL-281-SA5B-SB-4.0-5.0	TIN	J	2.56	11.8	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	TIN	J	2.56	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.12	5.71	PQL	mg/Kg	
SL-282-SA5B-SB-4.0-5.0	BORON	J	4.55	5.36	PQL	mg/Kg	J (all detects)
	SODIUM	J	59.8	107	PQL	mg/Kg	
	TIN	J	1.98	10.7	PQL	mg/Kg	
	Zirconium	J	2.33	5.36	PQL	mg/Kg	
SL-282-SA5B-SB-7.0-8.0	BORON	J	5.08	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.3	105	PQL	mg/Kg	
	TIN	J	2.05	10.5	PQL	mg/Kg	
	Zirconium	J	2.99	5.27	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	ANTIMONY	J	0.113	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.266	0.440	PQL	mg/Kg	
SED-001-SIV-SD-0.0-0.5	ANTIMONY	J	0.118	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.230	0.442	PQL	mg/Kg	
	SILVER	J	0.0983	0.110	PQL	mg/Kg	
SED-004-SIV-SD-0.0-0.5	ANTIMONY	J	0.113	0.240	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0368	0.120	PQL	mg/Kg	
SED-006-SIV-SD-0.0-0.5	ANTIMONY	J	0.174	0.245	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.193	0.490	PQL	mg/Kg	
	SILVER	J	0.0845	0.122	PQL	mg/Kg	
SED-012-SIV-SD-0.0-0.5	ANTIMONY	J	0.100	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.404	PQL	mg/Kg	
	SILVER	J	0.0246	0.101	PQL	mg/Kg	
SED-014-SIV-SD-0.0-0.5	ANTIMONY	J	0.101	0.231	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.239	0.461	PQL	mg/Kg	
	SILVER	J	0.0350	0.115	PQL	mg/Kg	
SL-026-SA5B-SB-4.0-5.0	ANTIMONY	J	0.137	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.445	PQL	mg/Kg	
	SILVER	J	0.0298	0.111	PQL	mg/Kg	
SL-026-SA5B-SB-9.0-10	ANTIMONY	J	0.0835	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0665	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0900	0.424	PQL	mg/Kg	
	SILVER	J	0.0313	0.106	PQL	mg/Kg	
SL-281-SA5B-SB-4.0-5.0	ANTIMONY	J	0.172	0.237	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.197	0.473	PQL	mg/Kg	
	SILVER	J	0.0599	0.118	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-281-SA5B-SB-8.0-9.0	ANTIMONY	J	0.0766	0.220	PQL	mg/Kg	
	SELENIUM	J	0.171	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0637	0.110	PQL	mg/Kg	
SL-282-SA5B-SB-4.0-5.0	SELENIUM	J	0.127	0.429	PQL	mg/Kg	
	SILVER	J	0.0388	0.107	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	ANTIMONY	J	0.105	0.211	PQL	mg/Kg	
	SELENIUM	J	0.135	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0361	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)
SED-004-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.2	PQL	mg/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)
SED-012-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SED-014-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.2	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.59	1.2	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	MERCURY	J	0.0498	0.107	PQL	mg/Kg	J (all detects)
SED-004-SIV-SD-0.0-0.5	MERCURY	J	0.0343	0.114	PQL	mg/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	MERCURY	J	0.0233	0.120	PQL	mg/Kg	J (all detects)
SED-012-SIV-SD-0.0-0.5	MERCURY	J	0.0078	0.101	PQL	mg/Kg	J (all detects)
SED-014-SIV-SD-0.0-0.5	MERCURY	J	0.0209	0.111	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	MERCURY	J	0.0092	0.115	PQL	mg/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	MERCURY	J	0.0034	0.113	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-4.0-5.0	METHANOL	J	240	560	PQL	ug/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	METHANOL	J	220	550	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	METHANOL	J	550	600	PQL	ug/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	METHANOL	J	330	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-4.0-5.0	EFH (C15-C20)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	EFH (C21-C30) EFH (C30-C40)	J J	1.2 1.1	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-001-SIV-SD-0.0-0.5	DELTA-BHC	J	0.074	0.19	PQL	ug/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	DELTA-BHC	J	0.14	0.21	PQL	ug/Kg	J (all detects)
SED-012-SIV-SD-0.0-0.5	4,4'-DDD DIELDRIN	J J	0.35 0.12	0.36 0.36	PQL PQL	ug/Kg ug/Kg	J (all detects)
SED-014-SIV-SD-0.0-0.5	DELTA-BHC	J	0.11	0.20	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	AROCLOR 1260	J	1.9	2.0	PQL	ug/Kg	J (all detects)
SL-026-SA5B-SB-4.0-5.0	AROCLOR 1254	J	0.49	1.9	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	AROCLOR 1254	J	0.52	2.0	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-8.0-9.0	AROCLOR 1254	J	0.71	1.9	PQL	ug/Kg	J (all detects)
SL-282-SA5B-SB-7.0-8.0	AROCLOR 1254	J	0.62	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-006-SIV-SD-0.0-0.5	DICAMBA	J	0.78	1.5	PQL	ug/Kg	J (all detects)
	DICHLOROPROP	J	2.0	2.1	PQL	ug/Kg	
SED-012-SIV-SD-0.0-0.5	DICAMBA	J	0.77	1.3	PQL	ug/Kg	J (all detects)
	MCPP	J	240	270	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.93	4.7	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.7	PQL	ug/Kg	
SL-026-SA5B-SB-9.0-10	METHYLENE CHLORIDE	J	0.62	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.08	3.9	PQL	ug/Kg	
SL-281-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.73	4.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.5	PQL	ug/Kg	
SL-281-SA5B-SB-8.0-9.0	2-BUTANONE (MEK)	J	7.4	9.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.81	4.6	PQL	ug/Kg	
	TOLUENE	J	0.16	4.6	PQL	ug/Kg	
SL-282-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.96	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	4.1	PQL	ug/Kg	
SL-282-SA5B-SB-7.0-8.0	2-BUTANONE (MEK)	J	5.8	7.9	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.85	4.0	PQL	ug/Kg	
	TOLUENE	J	0.12	4.0	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5B-QC-121710	1-METHYLNAPHTHALENE	J	0.94	1.9	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.82	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.6	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	
SED-001-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.63	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.96	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.77	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.1	20	PQL	ug/Kg	
SED-004-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	22	PQL	ug/Kg	J (all detects)
SED-006-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.55	2.1	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.83	2.1	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.5	2.1	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.7	2.1	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.7	2.1	PQL	ug/Kg	
	Butylbenzylphthalate	J	13	22	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.0	2.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE045 **Laboratory: LL**

EDD Filename: DE045_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SED-012-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.82	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.89	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	12	19	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SED-014-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	2.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	2.0	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	21	PQL	ug/Kg	
	CHRYSENE	J	1.9	2.0	PQL	ug/Kg	
	FLUORENE	J	1.9	2.0	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.91	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.98	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	2.0	PQL	ug/Kg	
SL-026-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	J (all detects)
SL-026-SA5B-SB-9.0-10	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	20	PQL	ug/Kg	J (all detects)
SL-281-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	22	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.1	22	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	2.0	PQL	ug/Kg	
SL-282-SA5B-SB-4.0-5.0	ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	20	PQL	ug/Kg	
SL-282-SA5B-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	20	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	14	20	PQL	ug/Kg	

LDC #: 25550D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/11
SDG #: DE045 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: GR
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	—	
III.	Calibration	—	
IV.	Blanks	SW	CCB hits but no data qualified (see SDG: DE050)
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca ~~Fe, Mg, Mn, P, Ti, Zn~~ → 4x) or Dup (
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	See SDG: DE050
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	ND	EB=2,3

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

Validated Samples:

1	DUP08-SA5B-QC-121710	11	SL-281-SA5B-SB-4.0-5.0	21		31	
2	EB05-SA5B-121710	12	SL-281-SA5B-SB-8.0-9.0	22		32	
3	EB01-SIV-121710	13	SL-026-SA5B-SB-4.0-5.0	23		33	
4	SED-014-SIV-SD-0.0-0.5	14	SL-026-SA5B-SB-9.0-10	24		34	
5	SED-012-SIV-SD-0.0-0.5	15		25		35	
6	SED-006-SIV-SD-0.0-0.5	16		26		36	
7	SED-001-SIV-SD-0.0-0.5	17		27		37	
8	SED-004-SIV-SD-0.0-0.5	18		28		38	
9	SL-282-SA5B-SB-4.0-5.0	19		29		39	
10	SL-282-SA5B-SB-7.0-8.0	20		30		40	

Notes: _____

LDC #: 2555004

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-14		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, ~~As, Ba, Be, Cd, Cr, Co~~, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

SAMPLE DELIVERY GROUP

DE046

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3050B	6010B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3050B	6020	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3060A	7199	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3550B	8081A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3550B	8082	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3550B	8151A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3550B	8270C	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	3550B	8270C SIM	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	Gen Prep	9045M	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	METHOD	300.0	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	METHOD	314.0	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172038	N	METHOD	7471A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3050B	6010B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3050B	6020	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3060A	7199	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3550B	8081A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3550B	8082	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3550B	8151A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3550B	8270C	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	3550B	8270C SIM	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	METHOD	300.0	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	METHOD	314.0	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172039	MS	METHOD	7471A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3050B	6010B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3050B	6020	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3550B	8081A	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3550B	8082	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3550B	8151A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3550B	8270C	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	3550B	8270C SIM	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172040	MSD	METHOD	7471A	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	3050B	6010B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	3050B	6020	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	3060A	7199	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	Gen Prep	9045M	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	METHOD	300.0	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	METHOD	314.0	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5DUP	6172041	DUP	METHOD	7471A	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3050B	6010B	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3050B	6020	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3060A	7199	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3550B	8081A	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3550B	8082	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3550B	8151A	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3550B	8270C	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	3550B	8270C SIM	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	Gen Prep	9045M	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	METHOD	300.0	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	METHOD	314.0	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172036	FD	METHOD	7471A	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3050B	6010B	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3050B	6020	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3060A	7199	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3550B	8081A	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3550B	8082	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3550B	8151A	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3550B	8270C	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	3550B	8270C SIM	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	Gen Prep	9045M	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	METHOD	300.0	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	METHOD	314.0	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172037	N	METHOD	7471A	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3050B	6010B	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3050B	6020	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3060A	7199	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3550B	8081A	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3550B	8082	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3550B	8151A	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3550B	8270C	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	3550B	8270C SIM	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	Gen Prep	9045M	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	METHOD	300.0	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	METHOD	314.0	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172043	N	METHOD	7471A	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3050B	6010B	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3050B	6020	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3060A	7199	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3550B	8081A	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3550B	8082	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3550B	8151A	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3550B	8270C	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	3550B	8270C SIM	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	Gen Prep	9045M	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	METHOD	300.0	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	METHOD	314.0	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172042	N	METHOD	7471A	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3050B	6010B	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3050B	6020	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3060A	7199	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3550B	8081A	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3550B	8082	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3550B	8151A	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3550B	8270C	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	3550B	8270C SIM	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	Gen Prep	9045M	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	METHOD	300.0	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	METHOD	314.0	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172045	N	METHOD	7471A	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3050B	6010B	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3050B	6020	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3060A	7199	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3550B	8081A	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3550B	8082	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3550B	8151A	IV

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3550B	8270C	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	3550B	8270C SIM	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	Gen Prep	9045M	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	METHOD	300.0	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	METHOD	314.0	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172044	N	METHOD	7471A	IV

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory:** LL

EDD Filename: PrepDE046_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP01-SIV-QC-122010 ***Collected:*** 12/20/2010 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	2.3		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SED-003-SIV-SD-0.0-0.5 ***Collected:*** 12/20/2010 9:46:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		1.1	MDL	1.4	PQL	mg/Kg	J	Q

Sample ID: SED-005-SIV-SD-0.0-0.5 ***Collected:*** 12/20/2010 8:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.99	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SED-007-SIV-SD-0.0-0.6 ***Collected:*** 12/20/2010 1:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SED-008-SIV-SD-0.0-0.5 ***Collected:*** 12/20/2010 10:39:00 ***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		1.2	MDL	1.5	PQL	mg/Kg	J	Q

Sample ID: SED-034-SIV-SD-0.0-0.5 ***Collected:*** 12/20/2010 3:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SED-037-SIV-SD-0.0-0.5 ***Collected:*** 12/20/2010 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
FLUORIDE	2.4		1.1	MDL	1.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	29.4	J	13.4	MDL	44.6	PQL	ug/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 8:32:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.20	J	1.21	MDL	12.1	PQL	mg/Kg	U	B

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
BORON	5.00	J	1.08	MDL	6.07	PQL	mg/Kg	J	Z
LITHIUM	22.7		0.27	MDL	2.4	PQL	mg/Kg	J	A
SODIUM	75.0	J	45.3	MDL	121	PQL	mg/Kg	J	Z
STRONTIUM	16.2		0.0753	MDL	0.607	PQL	mg/Kg	J	A
Zirconium	1.20	J	1.02	MDL	6.07	PQL	mg/Kg	J	Z, FD

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.28	J	1.29	MDL	12.9	PQL	mg/Kg	U	B

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.57	J	1.15	MDL	6.44	PQL	mg/Kg	J	Z
LITHIUM	20.3		0.28	MDL	2.6	PQL	mg/Kg	J	A
SODIUM	99.8	J	48.1	MDL	129	PQL	mg/Kg	J	Z
STRONTIUM	14.6		0.0799	MDL	0.644	PQL	mg/Kg	J	A
Zirconium	1.21	J	1.08	MDL	6.44	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.32	J	1.20	MDL	12.0	PQL	mg/Kg	U	B

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.11	J	1.07	MDL	6.00	PQL	mg/Kg	J	Z
LITHIUM	22.6		0.26	MDL	2.4	PQL	mg/Kg	J	A
SODIUM	75.7	J	44.8	MDL	120	PQL	mg/Kg	J	Z
STRONTIUM	15.8		0.0744	MDL	0.600	PQL	mg/Kg	J	A
Zirconium	1.01	U	1.01	MDL	6.00	PQL	mg/Kg	UJ	FD

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.36	J	1.18	MDL	11.8	PQL	mg/Kg	U	B

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LITHIUM	18.2		0.26	MDL	2.4	PQL	mg/Kg	J	A
SODIUM	69.5	J	44.1	MDL	118	PQL	mg/Kg	J	Z
STRONTIUM	24.3		0.0732	MDL	0.591	PQL	mg/Kg	J	A
Zirconium	1.02	J	0.992	MDL	5.91	PQL	mg/Kg	J	Z

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.87	J	1.42	MDL	14.2	PQL	mg/Kg	U	B

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	6.76	J	1.26	MDL	7.08	PQL	mg/Kg	J	Z
LITHIUM	23.9		0.31	MDL	2.8	PQL	mg/Kg	J	A
SODIUM	82.4	J	52.8	MDL	142	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	19.3		0.0877	MDL	0.708	PQL	mg/Kg	J	A
Zirconium	1.44	J	1.19	MDL	7.08	PQL	mg/Kg	J	Z

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.65	J	1.26	MDL	12.6	PQL	mg/Kg	U	B

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.57	J	1.12	MDL	6.30	PQL	mg/Kg	J	Z
LITHIUM	22.6		0.28	MDL	2.5	PQL	mg/Kg	J	A
SODIUM	56.6	J	47.0	MDL	126	PQL	mg/Kg	J	Z
STRONTIUM	8.22		0.0781	MDL	0.630	PQL	mg/Kg	J	A

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
TIN	3.42	J	1.37	MDL	13.7	PQL	mg/Kg	U	B

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
LITHIUM	20.8		0.30	MDL	2.7	PQL	mg/Kg	J	A
SODIUM	121	J	51.1	MDL	137	PQL	mg/Kg	J	Z
STRONTIUM	27.0		0.0849	MDL	0.685	PQL	mg/Kg	J	A
Zirconium	1.54	J	1.15	MDL	6.85	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 8:32:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.183	J	0.0495	MDL	0.495	PQL	mg/Kg	J	Z

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
MOLYBDENUM	0.747		0.0619	MDL	0.124	PQL	mg/Kg	J	Q, E

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
BARIUM	122		0.134	MDL	0.495	PQL	mg/Kg	J	E, A

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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	0.134	J	0.0743	MDL	0.248	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.30		0.0743	MDL	0.495	PQL	mg/Kg	J	Q, E
CADMIUM	0.267		0.0446	MDL	0.124	PQL	mg/Kg	J	Q
CHROMIUM	21.4		0.149	MDL	0.495	PQL	mg/Kg	J	E
COBALT	6.69		0.0248	MDL	0.124	PQL	mg/Kg	J	E
COPPER	10.4		0.0817	MDL	0.495	PQL	mg/Kg	J	E
LEAD	18.4		0.0129	MDL	0.248	PQL	mg/Kg	J	E, A
NICKEL	16.3		0.124	MDL	0.495	PQL	mg/Kg	J	Q, E, A
SILVER	0.0727	J	0.0149	MDL	0.124	PQL	mg/Kg	J	Z
THALLIUM	0.366		0.0371	MDL	0.124	PQL	mg/Kg	J	Q
VANADIUM	40.6		0.0272	MDL	0.124	PQL	mg/Kg	J	Q, E, A
ZINC	86.4		0.693	MDL	3.71	PQL	mg/Kg	J	E, A

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0531	MDL	0.531	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.396		0.0663	MDL	0.133	PQL	mg/Kg	J	Q, E

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.143	MDL	0.531	PQL	mg/Kg	J	E, A

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0796	MDL	0.265	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.91		0.0796	MDL	0.531	PQL	mg/Kg	J	Q, E
CADMIUM	0.164		0.0478	MDL	0.133	PQL	mg/Kg	J	Q
CHROMIUM	17.3		0.159	MDL	0.531	PQL	mg/Kg	J	E
COBALT	6.47		0.0265	MDL	0.133	PQL	mg/Kg	J	E
COPPER	8.40		0.0876	MDL	0.531	PQL	mg/Kg	J	E
LEAD	11.0		0.0138	MDL	0.265	PQL	mg/Kg	J	E, A
NICKEL	11.2		0.133	MDL	0.531	PQL	mg/Kg	J	Q, E, A
SILVER	0.0333	J	0.0159	MDL	0.133	PQL	mg/Kg	J	Z
THALLIUM	0.291		0.0398	MDL	0.133	PQL	mg/Kg	J	Q
VANADIUM	36.5		0.0292	MDL	0.133	PQL	mg/Kg	J	Q, E, A
ZINC	71.6		0.743	MDL	3.98	PQL	mg/Kg	J	E, A

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0480	MDL	0.480	PQL	mg/Kg	J	Z

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.819		0.0600	MDL	0.120	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.130	MDL	0.480	PQL	mg/Kg	J	E, A

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.166	J	0.0720	MDL	0.240	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.63		0.0720	MDL	0.480	PQL	mg/Kg	J	Q, E
CADMIUM	0.224		0.0432	MDL	0.120	PQL	mg/Kg	J	Q
CHROMIUM	25.3		0.144	MDL	0.480	PQL	mg/Kg	J	E
COBALT	6.97		0.0240	MDL	0.120	PQL	mg/Kg	J	E
COPPER	11.0		0.0792	MDL	0.480	PQL	mg/Kg	J	E
LEAD	16.5		0.0125	MDL	0.240	PQL	mg/Kg	J	E, A
NICKEL	17.6		0.120	MDL	0.480	PQL	mg/Kg	J	Q, E, A
SILVER	0.0489	J	0.0144	MDL	0.120	PQL	mg/Kg	J	Z
THALLIUM	0.358		0.0360	MDL	0.120	PQL	mg/Kg	J	Q
VANADIUM	43.7		0.0264	MDL	0.120	PQL	mg/Kg	J	Q, E, A
ZINC	82.4		0.672	MDL	3.60	PQL	mg/Kg	J	E, A

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0468	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.495		0.0585	MDL	0.117	PQL	mg/Kg	J	Q, E

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.6		0.126	MDL	0.468	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0702	MDL	0.234	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.12		0.0702	MDL	0.468	PQL	mg/Kg	J	Q, E
CADMIUM	0.305		0.0421	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	16.5		0.140	MDL	0.468	PQL	mg/Kg	J	E
COBALT	5.12		0.0234	MDL	0.117	PQL	mg/Kg	J	E
COPPER	10.8		0.0772	MDL	0.468	PQL	mg/Kg	J	E
LEAD	11.7		0.0122	MDL	0.234	PQL	mg/Kg	J	E, A
NICKEL	12.8		0.117	MDL	0.468	PQL	mg/Kg	J	Q, E, A
SILVER	0.0542	J	0.0140	MDL	0.117	PQL	mg/Kg	J	Z
THALLIUM	0.234		0.0351	MDL	0.117	PQL	mg/Kg	J	Q
VANADIUM	32.3		0.0257	MDL	0.117	PQL	mg/Kg	J	Q, E, A
ZINC	111		0.655	MDL	3.51	PQL	mg/Kg	J	E, A

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0594	MDL	0.594	PQL	mg/Kg	J	Z

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.508		0.0743	MDL	0.149	PQL	mg/Kg	J	Q, E

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.9		0.160	MDL	0.594	PQL	mg/Kg	J	E, A

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *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	0.0892	MDL	0.297	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.9		0.0892	MDL	0.594	PQL	mg/Kg	J	Q, E
CADMIUM	0.238		0.0535	MDL	0.149	PQL	mg/Kg	J	Q
CHROMIUM	16.3		0.178	MDL	0.594	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	5.85		0.0297	MDL	0.149	PQL	mg/Kg	J	E
COPPER	10.2		0.0981	MDL	0.594	PQL	mg/Kg	J	E
LEAD	16.9		0.0155	MDL	0.297	PQL	mg/Kg	J	E, A
NICKEL	12.3		0.149	MDL	0.594	PQL	mg/Kg	J	Q, E, A
SILVER	0.0811	J	0.0178	MDL	0.149	PQL	mg/Kg	J	Z
THALLIUM	0.268		0.0446	MDL	0.149	PQL	mg/Kg	J	Q
VANADIUM	31.2		0.0327	MDL	0.149	PQL	mg/Kg	J	Q, E, A
ZINC	67.9		0.832	MDL	4.46	PQL	mg/Kg	J	E, A

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0494	MDL	0.494	PQL	mg/Kg	J	Z

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.357		0.0618	MDL	0.124	PQL	mg/Kg	J	Q, E

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.1		0.133	MDL	0.494	PQL	mg/Kg	J	E, A

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0742	U	0.0742	MDL	0.247	PQL	mg/Kg	UJ	Q
ARSENIC	5.30		0.0742	MDL	0.494	PQL	mg/Kg	J	Q, E
CADMIUM	0.167		0.0445	MDL	0.124	PQL	mg/Kg	J	Q
CHROMIUM	13.0		0.148	MDL	0.494	PQL	mg/Kg	J	E
COBALT	4.99		0.0247	MDL	0.124	PQL	mg/Kg	J	E
COPPER	6.53		0.0816	MDL	0.494	PQL	mg/Kg	J	E
LEAD	12.7		0.0129	MDL	0.247	PQL	mg/Kg	J	E, A
NICKEL	9.34		0.124	MDL	0.494	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0249	J	0.0148	MDL	0.124	PQL	mg/Kg	J	Z
THALLIUM	0.252		0.0371	MDL	0.124	PQL	mg/Kg	J	Q
VANADIUM	27.7		0.0272	MDL	0.124	PQL	mg/Kg	J	Q, E, A
ZINC	93.8		0.692	MDL	3.71	PQL	mg/Kg	J	E, A

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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	0.266	J	0.0532	MDL	0.532	PQL	mg/Kg	J	Z

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.676		0.0665	MDL	0.133	PQL	mg/Kg	J	Q, E

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.144	MDL	0.532	PQL	mg/Kg	J	E, A

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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	0.249	J	0.0798	MDL	0.266	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.93		0.0798	MDL	0.532	PQL	mg/Kg	J	Q, E
CADMIUM	0.397		0.0479	MDL	0.133	PQL	mg/Kg	J	Q
CHROMIUM	23.8		0.160	MDL	0.532	PQL	mg/Kg	J	E
COBALT	7.03		0.0266	MDL	0.133	PQL	mg/Kg	J	E
COPPER	12.8		0.0878	MDL	0.532	PQL	mg/Kg	J	E
LEAD	49.0		0.0138	MDL	0.266	PQL	mg/Kg	J	E, A
NICKEL	18.6		0.133	MDL	0.532	PQL	mg/Kg	J	Q, E, A
SILVER	0.127	J	0.0160	MDL	0.133	PQL	mg/Kg	J	Z
THALLIUM	0.321		0.0399	MDL	0.133	PQL	mg/Kg	J	Q
VANADIUM	46.2		0.0293	MDL	0.133	PQL	mg/Kg	J	Q, E, A
ZINC	238		0.745	MDL	3.99	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
HEXAVALENT CHROMIUM	0.37	J	0.25	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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	0.60	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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	0.63	J	0.28	MDL	1.4	PQL	mg/Kg	J	Z

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

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
MERCURY	0.0285	J	0.0036	MDL	0.125	PQL	mg/Kg	J	Z

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0761	J	0.0037	MDL	0.128	PQL	mg/Kg	J	Z

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0309	J	0.0035	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0257	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.106	J	0.0043	MDL	0.148	PQL	mg/Kg	J	Z

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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	0.0210	J	0.0038	MDL	0.131	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
4,4'-DDE	0.71		0.083	MDL	0.43	PQL	ug/Kg	J	FD
4,4'-DDT	0.86		0.083	MDL	0.43	PQL	ug/Kg	J	FD
ENDRIN ALDEHYDE	0.27	J	0.083	MDL	0.43	PQL	ug/Kg	J	Z, FD
HEPTACHLOR EPOXIDE	0.078	J	0.043	MDL	0.21	PQL	ug/Kg	J	Z, L, FD
MIREX	0.095	J	0.083	MDL	0.43	PQL	ug/Kg	J	Z, FD, *XIII

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	1.2		0.089	MDL	0.46	PQL	ug/Kg	J	S, * XIII
gamma-BHC (Lindane)	0.058	J	0.046	MDL	0.22	PQL	ug/Kg	J	Z, S, * XIII

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
4,4'-DDD	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
4,4'-DDE	0.53	U	0.53	MDL	0.53	PQL	ug/Kg	UJ	S, FD
4,4'-DDT	0.83	U	0.83	MDL	0.83	PQL	ug/Kg	UJ	S, FD
ALDRIN	0.082	U	0.082	MDL	0.21	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
BETA-BHC	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	UJ	S
Chlordane	3.3	U	3.3	MDL	4.2	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.044	U	0.044	MDL	0.21	PQL	ug/Kg	UJ	S
DIELDRIN	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.054	U	0.054	MDL	0.21	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.15	U	0.15	MDL	0.42	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN	0.091	U	0.091	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.19	U	0.19	MDL	0.42	PQL	ug/Kg	UJ	S, FD
ENDRIN KETONE	0.082	U	0.082	MDL	0.42	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.042	U	0.042	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.074	U	0.074	MDL	0.21	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.10	U	0.10	MDL	0.21	PQL	ug/Kg	UJ	S, FD
METHOXYCHLOR	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	UJ	S
MIREX	0.10	U	0.10	MDL	0.42	PQL	ug/Kg	UJ	S, FD
TOXAPHENE	2.7	U	2.7	MDL	8.2	PQL	ug/Kg	UJ	S

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	3.8		0.40	MDL	2.1	PQL	ug/Kg	J	C, M

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.060	J	0.041	MDL	0.20	PQL	ug/Kg	J	Z, * XIII
TOXAPHENE	2.7	U	2.7	MDL	8.0	PQL	ug/Kg	UJ	C

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	10		0.49	MDL	2.5	PQL	ug/Kg	J	C, M

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.098	U	0.098	MDL	0.51	PQL	ug/Kg	R	S, S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *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	2.8	U	2.8	MDL	2.8	PQL	ug/Kg	R	S
ALDRIN	0.098	U	0.098	MDL	0.25	PQL	ug/Kg	R	S
ALPHA-BHC	0.051	U	0.051	MDL	0.25	PQL	ug/Kg	R	S
BETA-BHC	0.089	U	0.089	MDL	0.25	PQL	ug/Kg	R	S
Chlordane	1.2	U	1.2	MDL	5.1	PQL	ug/Kg	R	S
DELTA-BHC	0.053	U	0.053	MDL	0.25	PQL	ug/Kg	R	S
DIELDRIN	0.64	U	0.64	MDL	0.64	PQL	ug/Kg	R	S
ENDOSULFAN I	0.065	U	0.065	MDL	0.25	PQL	ug/Kg	R	S
ENDOSULFAN II	0.79	U	0.79	MDL	0.79	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.098	U	0.098	MDL	0.51	PQL	ug/Kg	R	S
ENDRIN	0.98	U	0.98	MDL	0.98	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.46	U	0.46	MDL	0.51	PQL	ug/Kg	R	S
ENDRIN KETONE	0.098	U	0.098	MDL	0.51	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.051	U	0.051	MDL	0.25	PQL	ug/Kg	R	S
HEPTACHLOR	0.089	U	0.089	MDL	0.25	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.64	U	0.64	MDL	0.64	PQL	ug/Kg	R	S
METHOXYCHLOR	0.51	U	0.51	MDL	2.5	PQL	ug/Kg	R	S
MIREX	0.098	U	0.098	MDL	0.51	PQL	ug/Kg	R	S
TOXAPHENE	3.3	U	3.3	MDL	9.8	PQL	ug/Kg	R	S

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
4,4'-DDD	0.085	U	0.085	MDL	0.44	PQL	ug/Kg	R	S
4,4'-DDE	0.25	U	0.25	MDL	0.44	PQL	ug/Kg	R	S
4,4'-DDT	0.37	U	0.37	MDL	0.44	PQL	ug/Kg	R	S
ALDRIN	0.085	U	0.085	MDL	0.21	PQL	ug/Kg	R	S
ALPHA-BHC	0.044	U	0.044	MDL	0.21	PQL	ug/Kg	R	S
BETA-BHC	0.077	U	0.077	MDL	0.21	PQL	ug/Kg	R	S
Chlordane	1.0	U	1.0	MDL	4.4	PQL	ug/Kg	R	S
DELTA-BHC	0.046	U	0.046	MDL	0.21	PQL	ug/Kg	R	S
DIELDRIN	0.085	U	0.085	MDL	0.44	PQL	ug/Kg	R	S
ENDOSULFAN I	0.057	U	0.057	MDL	0.21	PQL	ug/Kg	R	S
ENDOSULFAN II	0.085	U	0.085	MDL	0.44	PQL	ug/Kg	R	S

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
ENDOSULFAN SULFATE	0.29	U	0.29	MDL	0.44	PQL	ug/Kg	R	S
ENDRIN	0.085	U	0.085	MDL	0.44	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.085	U	0.085	MDL	0.44	PQL	ug/Kg	R	S
ENDRIN KETONE	0.085	U	0.085	MDL	0.44	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.044	U	0.044	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR	0.077	U	0.077	MDL	0.21	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.044	U	0.044	MDL	0.21	PQL	ug/Kg	R	S
METHOXYCHLOR	0.44	U	0.44	MDL	2.1	PQL	ug/Kg	R	S
MIREX	0.36	U	0.36	MDL	0.44	PQL	ug/Kg	R	S
TOXAPHENE	2.8	U	2.8	MDL	8.5	PQL	ug/Kg	R	S

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	2.7		0.46	MDL	2.4	PQL	ug/Kg	J	C
4,4'-DDT	3.7		0.46	MDL	2.4	PQL	ug/Kg	J	C, * XIII

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
AROCLOR 1254	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.42	U	0.42	MDL	2.1	PQL	ug/Kg	UJ	FD
Aroclor 5432	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L
Aroclor 5442	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L
Aroclor 5460	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	FD, L

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	6.8	U	6.8	MDL	22	PQL	ug/Kg	UJ	L
Aroclor 5442	6.8	U	6.8	MDL	22	PQL	ug/Kg	UJ	L
Aroclor 5460	6.8	U	6.8	MDL	22	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	12		0.82	MDL	4.2	PQL	ug/Kg	J	S, FD
AROCLOR 1260	4.2	J	0.82	MDL	4.2	PQL	ug/Kg	J	S, FD
Aroclor 5432	2.5	U	2.5	MDL	8.2	PQL	ug/Kg	UJ	L
Aroclor 5442	2.5	U	2.5	MDL	8.2	PQL	ug/Kg	UJ	L
Aroclor 5460	8.0	J	2.5	MDL	8.2	PQL	ug/Kg	J	Z, S, FD, L

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.1	J	0.80	MDL	4.1	PQL	ug/Kg	J	Z, * XIII
Aroclor 5432	2.4	U	2.4	MDL	8.0	PQL	ug/Kg	UJ	L
Aroclor 5442	2.4	U	2.4	MDL	8.0	PQL	ug/Kg	UJ	L
Aroclor 5460	9.6		2.4	MDL	8.0	PQL	ug/Kg	J	L

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	15	U	15	MDL	49	PQL	ug/Kg	UJ	L
Aroclor 5442	15	U	15	MDL	49	PQL	ug/Kg	UJ	L
Aroclor 5460	15	U	15	MDL	49	PQL	ug/Kg	UJ	L

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.42	MDL	2.2	PQL	ug/Kg	J	Z, S, * XIII
AROCLOR 1260	1.3	J	0.42	MDL	2.2	PQL	ug/Kg	J	Z, S, * XIII
Aroclor 5432	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L
Aroclor 5442	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L
Aroclor 5460	1.5	J	1.3	MDL	4.2	PQL	ug/Kg	J	Z, S, L

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
Aroclor 5432	2.8	U	2.8	MDL	9.2	PQL	ug/Kg	UJ	L
Aroclor 5442	2.8	U	2.8	MDL	9.2	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
Aroclor 5460	140		2.8	MDL	9.2	PQL	ug/Kg	J	L

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
2,4,5-TP (Silvex)	0.18	J	0.095	MDL	0.21	PQL	ug/Kg	J	Z, FD, *IX
2,4-D	1.5	U	1.5	MDL	4.5	PQL	ug/Kg	UJ	C
DALAPON	5.6	U	5.6	MDL	11	PQL	ug/Kg	UJ	C
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	UJ	C

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.6	U	1.6	MDL	4.9	PQL	ug/Kg	UJ	C
DALAPON	6.0	U	6.0	MDL	12	PQL	ug/Kg	UJ	C
DINOSEB	1.1	U	1.1	MDL	3.2	PQL	ug/Kg	UJ	C
MCPA	340	J	100	MDL	340	PQL	ug/Kg	J	* IX
MCPP	220	J	100	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
2,4,5-TP (Silvex)	0.093	U	0.093	MDL	0.21	PQL	ug/Kg	UJ	FD
2,4-D	1.5	U	1.5	MDL	4.4	PQL	ug/Kg	UJ	C
DALAPON	5.4	U	5.4	MDL	11	PQL	ug/Kg	UJ	C
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	UJ	C

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.3		0.75	MDL	2.1	PQL	ug/Kg	J	* IX

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	21	MDL	420	PQL	ug/Kg	J	Z

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
BENZIDINE	1400	U	1400	MDL	4100	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	21	MDL	410	PQL	ug/Kg	J	Z

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *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(G,H,I)PERYLENE	22	J	20	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
Butylbenzylphthalate	32	J	21	MDL	210	PQL	ug/Kg	J	Z

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	23	MDL	470	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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(A)PYRENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD
CHRYSENE	0.71	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z, FD
Di-n-octylphthalate	7.6	U	7.6	MDL	23	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 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
FLUORANTHENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.85	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z, FD
PYRENE	0.84	U	0.84	MDL	2.1	PQL	ug/Kg	UJ	FD

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *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	1.9	J	0.90	MDL	2.3	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.90	MDL	2.3	PQL	ug/Kg	J	Z
Butylbenzylphthalate	17	J	8.1	MDL	24	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.90	MDL	2.3	PQL	ug/Kg	J	Z
NAPHTHALENE	0.91	J	0.90	MDL	2.3	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.90	MDL	2.3	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.90	MDL	2.3	PQL	ug/Kg	J	Z

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
BENZO(A)PYRENE	1.2	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	2.6		0.82	MDL	2.1	PQL	ug/Kg	J	FD, C
BENZO(G,H,I)PERYLENE	1.9	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	0.84	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z, FD
CHRYSENE	2.6		0.41	MDL	2.1	PQL	ug/Kg	J	FD
Di-n-octylphthalate	15	J	7.4	MDL	22	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	2.6		0.82	MDL	2.1	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	1.4	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z, FD
N-NITROSODIMETHYLAMINE	0.82	U	0.82	MDL	2.1	PQL	ug/Kg	UJ	Q
PHENANTHRENE	1.6	J	0.82	MDL	2.1	PQL	ug/Kg	J	Z, FD
PYRENE	2.1		0.82	MDL	2.1	PQL	ug/Kg	J	FD

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *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	0.69	J	0.41	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *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)PYRENE	10		0.81	MDL	2.0	PQL	ug/Kg	J	I
BENZO(B)FLUORANTHENE	35		0.81	MDL	2.0	PQL	ug/Kg	J	I
BENZO(K)FLUORANTHENE	0.81	U	0.81	MDL	2.0	PQL	ug/Kg	UJ	I
Butylbenzylphthalate	14	J	7.3	MDL	22	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	5.7		0.81	MDL	2.0	PQL	ug/Kg	J	I
Di-n-octylphthalate	7.3	U	7.3	MDL	22	PQL	ug/Kg	UJ	I
INDENO(1,2,3-CD)PYRENE	5.9		0.81	MDL	2.0	PQL	ug/Kg	J	I
NAPHTHALENE	0.86	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	2.2	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	2.1	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z
ANTHRACENE	0.51	J	0.50	MDL	2.5	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.6	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	2.0	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z
Butylbenzylphthalate	9.9	J	8.9	MDL	27	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.99	MDL	2.5	PQL	ug/Kg	J	Z

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 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
BENZO(A)ANTHRACENE	1.2	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.8	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z
PHENANTHRENE	2.0	J	0.86	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.71	J	0.47	MDL	2.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.47	MDL	2.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XIII and * IX	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE046

Method Blank Outlier Report

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36208BB220516	12/30/2010 5:16:00 AM	PHOSPHORUS	1.73 mg/Kg	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5
P36208BB221423	12/30/2010 2:23:00 PM	TIN	1.33 mg/Kg	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-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-SIV-QC-122010(REA)	TIN	2.20 mg/Kg	2.20U mg/Kg
SED-003-SIV-SD-0.0-0.5(REA)	TIN	2.28 mg/Kg	2.28U mg/Kg
SED-005-SIV-SD-0.0-0.5(REA)	TIN	2.32 mg/Kg	2.32U mg/Kg
SED-007-SIV-SD-0.0-0.6(REA)	TIN	2.36 mg/Kg	2.36U mg/Kg
SED-008-SIV-SD-0.0-0.5(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SED-034-SIV-SD-0.0-0.5(REA)	TIN	2.65 mg/Kg	2.65U mg/Kg
SED-037-SIV-SD-0.0-0.5(REA)	TIN	3.42 mg/Kg	3.42U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36226AB221038A	1/5/2011 10:38:00 AM	COPPER	0.0909 mg/Kg	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_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
SED-005-SIV-SD-0.0-0.5MS (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	FLUORIDE	62	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-005-SIV-SD-0.0-0.5MS	4,4'-DDD	-	-	16.00-163.00	55 (50.00)	4,4'-DDD	J(all detects)
SED-005-SIV-SD-0.0-0.5MSD	4,4'-DDE	188	240	18.00-161.00	-	4,4'-DDE	
(SED-005-SIV-SD-0.0-0.5)	4,4'-DDT	-	186	10.00-176.00	-	4,4'-DDT	
	ENDOSULFAN II	-	-	28.00-154.00	51 (50.00)	ENDOSULFAN II	
	ENDRIN ALDEHYDE	-	-	10.00-148.00	63 (35.00)	ENDRIN ALDEHYDE	

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-005-SIV-SD-0.0-0.5MS SED-005-SIV-SD-0.0-0.5MSD (SED-005-SIV-SD-0.0-0.5)	DALAPON	90	93	12.00-86.00	-	DALAPON	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-005-SIV-SD-0.0-0.5MS	ARSENIC	-	135	75.00-125.00	-	ARSENIC	
SED-005-SIV-SD-0.0-0.5MSD	CADMIUM	129	126	75.00-125.00	-	CADMIUM	
(DUP01-SIV-QC-122010	NICKEL	130	141	75.00-125.00	-	NICKEL	
SED-003-SIV-SD-0.0-0.5	THALLIUM	129	-	75.00-125.00	-	THALLIUM	
SED-005-SIV-SD-0.0-0.5	VANADIUM	-	132	75.00-125.00	-	VANADIUM	J(all detects)
SED-007-SIV-SD-0.0-0.6	ZINC	-	144	75.00-125.00	-	ZINC	Zn No Qual, >4x
SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)							
SED-005-SIV-SD-0.0-0.5MS	ANTIMONY	40	45	75.00-125.00	-	ANTIMONY	
SED-005-SIV-SD-0.0-0.5MSD	LEAD	141	47	75.00-125.00	-	LEAD	
(DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)							J(all detects) UJ(all non-detects) Pb No Qual, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_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
SED-005-SIV-SD-0.0-0.5MS SED-005-SIV-SD-0.0-0.5MSD (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	MOLYBDENUM	133	135	75.00-125.00	-	MOLYBDENUM	J(all detects)
SED-005-SIV-SD-0.0-0.5MSD (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	BARIUM	-	227	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
SED-005-SIV-SD-0.0-0.5MS SED-005-SIV-SD-0.0-0.5MSD (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	1494 169 181 228	1284 147 136 200	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SED-005-SIV-SD-0.0-0.5MS SED-005-SIV-SD-0.0-0.5MSD (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	IRON	543	-55	75.00-125.00	-	IRON	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-005-SIV-SD-0.0-0.5MSD (SED-005-SIV-SD-0.0-0.5)	BENZIDINE	-	19	35.00-141.00	57 (30.00)	BENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_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
SED-005-SIV-SD-0.0-0.5MSD (SED-005-SIV-SD-0.0-0.5)	N-NITROSODIMETHYLAMINE	-	23	48.00-113.00	126 (30.00)	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: DE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-005-SIV-SD-0.0-0.5DUP (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	FLUORIDE	55	20.00	No Qual OK by difference

Method: 314.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-005-SIV-SD-0.0-0.5DUP (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	PERCHLORATE	200	20.00	No Qual OK by difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-005-SIV-SD-0.0-0.5DUP (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	Zirconium	200	20.00	No Qual OK by difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-005-SIV-SD-0.0-0.5DUP (DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5)	ANTIMONY	200	20.00	
	ARSENIC	43	20.00	
	BARIUM	38	20.00	
	BERYLLIUM	26	20.00	
	CHROMIUM	45	20.00	
	COBALT	36	20.00	
	COPPER	34	20.00	J(all detects) UJ(all non-detects)
	LEAD	26	20.00	
	MOLYBDENUM	0.2846	0.240 mg/Kg	Sb, Be, Tl
	NICKEL	46	20.00	No Qual
	THALLIUM	42	20.00	OK by difference
	VANADIUM	36	20.00	
	ZINC	37	20.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: DE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-005-SIV-SD-0.0-0.5DUP (DUP01-SIV-QC-122010 SED -003-SIV-SD-0.0-0.5 SED -005-SIV-SD-0.0-0.5 SED -007-SIV-SD-0.0-0.6 SED -008-SIV-SD-0.0-0.5 SED -034-SIV-SD-0.0-0.5 SED -037-SIV-SD-0.0-0.5)	HEXAVALENT CHROMIUM	22	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: PrepDE046_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
P03565AQ241458A P03565AY241439A (DUP01 -SIV-QC-122010 SED -003-SIV-SD-0.0-0.5 SED -005-SIV-SD-0.0-0.5 SED -007-SIV-SD-0.0-0.6 SED -008-SIV-SD-0.0-0.5 SED -034-SIV-SD-0.0-0.5 SED -037-SIV-SD-0.0-0.5)	Aroclor 5442	69	53	75.00-125.00	-	Aroclor 5432, 5442, 5460	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03638AQ241258A (DUP01 -SIV-QC-122010 SED -003-SIV-SD-0.0-0.5 SED -005-SIV-SD-0.0-0.5 SED -007-SIV-SD-0.0-0.6 SED -008-SIV-SD-0.0-0.5 SED -034-SIV-SD-0.0-0.5 SED -037-SIV-SD-0.0-0.5)	HEPTACHLOR EPOXIDE	136	-	65.00-131.00	-	HEPTACHLOR EPOXIDE	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03659AQ242126A (DUP01 -SIV-QC-122010 SED -003-SIV-SD-0.0-0.5 SED -005-SIV-SD-0.0-0.5 SED -007-SIV-SD-0.0-0.6 SED -008-SIV-SD-0.0-0.5 SED -034-SIV-SD-0.0-0.5 SED -037-SIV-SD-0.0-0.5)	DALAPON	91	-	24.00-89.00	-	DALAPON	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P36226AQ221041A (DUP01 -SIV-QC-122010 SED -003-SIV-SD-0.0-0.5 SED -005-SIV-SD-0.0-0.5 SED -007-SIV-SD-0.0-0.6 SED -008-SIV-SD-0.0-0.5 SED -034-SIV-SD-0.0-0.5 SED -037-SIV-SD-0.0-0.5)	ANTIMONY	61	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-003-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	270	20.00-120.00	All Target Analytes	J (all detects)
SED-005-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-008-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SED-008-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	15	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-034-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	8	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SED-034-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	20	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SED-037-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	348	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-003-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	No Qual Diluted Out
SED-005-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	134	45.00-120.00	All Target Analytes	J(all detects)
SED-034-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	157	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
MOISTURE	19.1	20.8	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
FLUORIDE	2.6	2.3	12	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
ALUMINUM	15200	15100	1	50.00	
BORON	4.11	5.00	20	50.00	
CALCIUM	2560	2620	2	50.00	
IRON	19200	18600	3	50.00	
LITHIUM	22.6	22.7	0	50.00	
MAGNESIUM	4420	4410	0	50.00	
MANGANESE	287	287	0	50.00	No Qualifiers Applied
PHOSPHORUS	451	462	2	50.00	
POTASSIUM	3360	3130	7	50.00	
SODIUM	75.7	75.0	1	50.00	
STRONTIUM	15.8	16.2	2	50.00	
TIN	2.32	2.20	5	50.00	
TITANIUM	1140	1090	4	50.00	
Zirconium	6.00 U	1.20	200	50.00	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
ANTIMONY	0.166	0.134	21	50.00	
ARSENIC	5.63	5.30	6	50.00	
BARIUM	113	122	8	50.00	
BERYLLIUM	0.649	0.646	0	50.00	
CADMIUM	0.224	0.267	18	50.00	
CHROMIUM	25.3	21.4	17	50.00	
COBALT	6.97	6.69	4	50.00	
COPPER	11.0	10.4	6	50.00	
LEAD	16.5	18.4	11	50.00	No Qualifiers Applied
MOLYBDENUM	0.819	0.747	9	50.00	
NICKEL	17.6	16.3	8	50.00	
SELENIUM	0.199	0.183	8	50.00	
SILVER	0.0489	0.0727	39	50.00	
THALLIUM	0.358	0.366	2	50.00	
VANADIUM	43.7	40.6	7	50.00	
ZINC	82.4	86.4	5	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: DE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
HEXAVALENT CHROMIUM	0.60	0.37	47	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
MERCURY	0.0309	0.0285	8	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
4,4'-DDE	0.53 U	0.71	200	50.00	J(all detects) UJ(all non-detects)
4,4'-DDT	0.83 U	0.86	200	50.00	
ENDRIN ALDEHYDE	0.42 U	0.27	200	50.00	
HEPTACHLOR EPOXIDE	0.21 U	0.078	200	50.00	
MIREX	0.42 U	0.095	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
AROCLOR 1254	12	2.1 U	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	4.2	2.1 U	200	50.00	
Aroclor 5460	8.0	4.2 U	200	50.00	

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
2,4,5-TP (Silvex)	0.21 U	0.18	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: DE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
BENZO(A)PYRENE	1.2	2.1 U	200	50.00	
BENZO(B)FLUORANTHENE	2.6	2.1 U	200	50.00	
BENZO(G,H,I)PERYLENE	1.9	2.1 U	200	50.00	
BENZO(K)FLUORANTHENE	0.84	2.1 U	200	50.00	
CHRYSENE	2.6	0.71	114	50.00	J(all detects)
Di-n-octylphthalate	15	23 U	200	50.00	UJ(all non-detects)
FLUORANTHENE	2.6	2.1 U	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.4	2.1 U	200	50.00	
PHENANTHRENE	1.6	0.85	61	50.00	
PYRENE	2.1	2.1 U	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
BIS(2-ETHYLHEXYL)PHTHALATE	23	22	4	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
PH	6.64	5.94	11	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
Oxidation Reduction Potential	434	541	22		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_v1 eQAPP Name: CDM_SSFL_110509

Method: 314.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-008-SIV-SD-0.0-0.5	PERCHLORATE	J	29.4	44.6	PQL	ug/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	BORON	J	5.00	6.07	PQL	mg/Kg	J (all detects)
	SODIUM	J	75.0	121	PQL	mg/Kg	
	TIN	J	2.20	12.1	PQL	mg/Kg	
	Zirconium	J	1.20	6.07	PQL	mg/Kg	
SED-003-SIV-SD-0.0-0.5	BORON	J	5.57	6.44	PQL	mg/Kg	J (all detects)
	SODIUM	J	99.8	129	PQL	mg/Kg	
	TIN	J	2.28	12.9	PQL	mg/Kg	
	Zirconium	J	1.21	6.44	PQL	mg/Kg	
SED-005-SIV-SD-0.0-0.5	BORON	J	4.11	6.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	75.7	120	PQL	mg/Kg	
	TIN	J	2.32	12.0	PQL	mg/Kg	
SED-007-SIV-SD-0.0-0.6	SODIUM	J	69.5	118	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	11.8	PQL	mg/Kg	
	Zirconium	J	1.02	5.91	PQL	mg/Kg	
SED-008-SIV-SD-0.0-0.5	BORON	J	6.76	7.08	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.4	142	PQL	mg/Kg	
	TIN	J	2.87	14.2	PQL	mg/Kg	
	Zirconium	J	1.44	7.08	PQL	mg/Kg	
SED-034-SIV-SD-0.0-0.5	BORON	J	5.57	6.30	PQL	mg/Kg	J (all detects)
	SODIUM	J	56.6	126	PQL	mg/Kg	
	TIN	J	2.65	12.6	PQL	mg/Kg	
SED-037-SIV-SD-0.0-0.5	SODIUM	J	121	137	PQL	mg/Kg	J (all detects)
	TIN	J	3.42	13.7	PQL	mg/Kg	
	Zirconium	J	1.54	6.85	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	ANTIMONY	J	0.134	0.248	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.183	0.495	PQL	mg/Kg	
	SILVER	J	0.0727	0.124	PQL	mg/Kg	
SED-003-SIV-SD-0.0-0.5	ANTIMONY	J	0.104	0.265	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.155	0.531	PQL	mg/Kg	
	SILVER	J	0.0333	0.133	PQL	mg/Kg	
SED-005-SIV-SD-0.0-0.5	ANTIMONY	J	0.166	0.240	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.480	PQL	mg/Kg	
	SILVER	J	0.0489	0.120	PQL	mg/Kg	
SED-007-SIV-SD-0.0-0.6	ANTIMONY	J	0.145	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.168	0.468	PQL	mg/Kg	
	SILVER	J	0.0542	0.117	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: DE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-008-SIV-SD-0.0-0.5	ANTIMONY	J	0.109	0.297	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.594	PQL	mg/Kg	
	SILVER	J	0.0811	0.149	PQL	mg/Kg	
SED-034-SIV-SD-0.0-0.5	SELENIUM	J	0.143	0.494	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0249	0.124	PQL	mg/Kg	
SED-037-SIV-SD-0.0-0.5	ANTIMONY	J	0.249	0.266	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.266	0.532	PQL	mg/Kg	
	SILVER	J	0.127	0.133	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	HEXAVALENT CHROMIUM	J	0.37	1.3	PQL	mg/Kg	J (all detects)
SED-005-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.60	1.2	PQL	mg/Kg	J (all detects)
SED-037-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.63	1.4	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	MERCURY	J	0.0285	0.125	PQL	mg/Kg	J (all detects)
SED-003-SIV-SD-0.0-0.5	MERCURY	J	0.0761	0.128	PQL	mg/Kg	J (all detects)
SED-005-SIV-SD-0.0-0.5	MERCURY	J	0.0309	0.120	PQL	mg/Kg	J (all detects)
SED-007-SIV-SD-0.0-0.6	MERCURY	J	0.0257	0.114	PQL	mg/Kg	J (all detects)
SED-008-SIV-SD-0.0-0.5	MERCURY	J	0.106	0.148	PQL	mg/Kg	J (all detects)
SED-037-SIV-SD-0.0-0.5	MERCURY	J	0.0210	0.131	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	ENDRIN ALDEHYDE	J	0.27	0.43	PQL	ug/Kg	J (all detects)
	HEPTACHLOR EPOXIDE	J	0.078	0.21	PQL	ug/Kg	
	MIREX	J	0.095	0.43	PQL	ug/Kg	
SED-003-SIV-SD-0.0-0.5	gamma-BHC (Lindane)	J	0.058	0.22	PQL	ug/Kg	J (all detects)
SED-007-SIV-SD-0.0-0.6	gamma-BHC (Lindane)	J	0.060	0.20	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE046 Laboratory: LL

EDD Filename: DE046_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-005-SIV-SD-0.0-0.5	Aroclor 5460	J	8.0	8.2	PQL	ug/Kg	J (all detects)
SED-007-SIV-SD-0.0-0.6	AROCLOR 1254	J	3.1	4.1	PQL	ug/Kg	J (all detects)
SED-034-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.7	2.2	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.3	2.2	PQL	ug/Kg	
	Aroclor 5460	J	1.5	4.2	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	2,4,5-TP (Silvex)	J	0.18	0.21	PQL	ug/Kg	J (all detects)
SED-003-SIV-SD-0.0-0.5	MCPP	J	220	340	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	420	PQL	ug/Kg	J (all detects)
SED-005-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	410	PQL	ug/Kg	J (all detects)
SED-007-SIV-SD-0.0-0.6	BENZO(G,H,I)PERYLENE	J	22	200	PQL	ug/Kg	J (all detects)
SED-034-SIV-SD-0.0-0.5	Butylbenzylphthalate	J	32	210	PQL	ug/Kg	J (all detects)
SED-037-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	470	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	CHRYSENE	J	0.71	2.1	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.85	2.1	PQL	ug/Kg	
SED-003-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.9	2.3	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	2.3	PQL	ug/Kg	
	Butylbenzylphthalate	J	17	24	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	2.3	PQL	ug/Kg	
	NAPHTHALENE	J	0.91	2.3	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	2.3	PQL	ug/Kg	
	PYRENE	J	1.3	2.3	PQL	ug/Kg	
SED-005-SIV-SD-0.0-0.5	BENZO(A)PYRENE	J	1.2	2.1	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.9	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	2.1	PQL	ug/Kg	
	Di-n-octylphthalate	J	15	22	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	2.1	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	2.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE046 **Laboratory: LL**

EDD Filename: DE046_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SED-007-SIV-SD-0.0-0.6	ANTHRACENE	J	0.69	2.0	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	14	22	PQL	ug/Kg	
	NAPHTHALENE	J	0.86	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	2.0	PQL	ug/Kg	
SED-008-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	2.2	2.5	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	2.1	2.5	PQL	ug/Kg	
	ANTHRACENE	J	0.51	2.5	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.6	2.5	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.4	2.5	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	2.0	2.5	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	2.5	PQL	ug/Kg	
	Butylbenzylphthalate	J	9.9	27	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	2.5	PQL	ug/Kg	
SED-034-SIV-SD-0.0-0.5	BENZO(A)ANTHRACENE	J	1.2	2.1	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.8	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	2.1	PQL	ug/Kg	
	PHENANTHRENE	J	2.0	2.1	PQL	ug/Kg	
SED-037-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.71	2.3	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.1	2.3	PQL	ug/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	December 20, 2010
LDC Report Date:	June 8, 2011
Matrix:	Sediment
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds.

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semilvolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5MS/MSD (SED-005-SIV-SD-0.0-0.5)	Benzidine	-	19 (35-141)	57 (≤30)	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE046	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Bis(2-ethylhexyl)phthalate	22	23	4 (≤50)	-	-

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE046

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE046	SED-005-SIV-SD-0.0-0.5	Benzidine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E2a **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11
SDG #: DE046 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D RSD ≤ 30, r^2
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1, 3
XVII.	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: sediments

1	DUP01-SIV-QC-122010	11	SBLKLF3626	21		31	
2	SED-003-SIV-SD-0.0-0.5	12		22		32	
3	SED-005-SIV-SD-0.0-0.5	13		23		33	
4	SED-007-SIV-SD-0.0-0.6	14		24		34	
5	SED-008-SIV-SD-0.0-0.5	15		25		35	
6	SED-034-SIV-SD-0.0-0.5	16		26		36	
7	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5MSD	19		29		39	
10		20		30		40	

LDC #: 25SDE2a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
III. Calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
IV. Calibration Verification				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogates				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix Spike/Matrix Spike Duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory Control Samples				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25502a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
[illegible]				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
[illegible]				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
[illegible]				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.				
Target compounds were detected in the field duplicates.				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: GC/MS BNA (EPA Method 8270)

A. Phenol	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol	III. Benzo(a)pyrene
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene	T. 4-Chloroaniline	II. 4-Nitrophenol	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene	JJ. Dibenzofuran	YY. Fluoranthene	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine	Y. 2,4,6-Trichlorophenol	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT. 1-Methylnaphthalene
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)	FFF. Di-n-octylphthalate	UUU.
N. 2-Nitrophenol	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 25550E2a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

(Y) N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		8+9	SSS	( )	19 (35-141)	59 (30)	3	J/UJ/A
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25550 EDQ

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

Compound	Concentration (ng/kg)		≤ 50 RPD
	1	3	
EEE	22	23	4

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 25550E29

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs,

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard
X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/12/11	Phenol (1st internal standard)	2.133	2.133	2.123	2.123	5	5
			~~Naphthalene~~ nitrobenzene (2nd internal standard)	0.536	0.536	0.516	0.516	4	4
			~~Fluorene~~ 4-Nitrophenol (3rd internal standard)	0.315	0.315	0.283	0.283	10	10
			Pentachlorophenol (4th internal standard)	0.163	0.163	0.149	0.149	14	14
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.749	0.749	0.672	0.672	14	14
			Benzo(a)pyrene (6th internal standard)	1.339	1.339	1.266	1.266	9	9
2			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	FA0511	1/18/11	Phenol (1st internal standard)	2.123	2.208	2.208	4	4
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.516	0.550	0.550	7	7
			~~Fluorene~~ 4-Nitrophenol (3rd internal standard)	0.283	0.204	0.204	7	7
			Pentachlorophenol (4th internal standard)	0.149	0.133	0.133	11	11
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.672	0.667	0.667	1	1
			Benzo(a)pyrene (6th internal standard)	1.266	1.284	1.284	1	1
2	FA0531	1/18/11	Phenol (1st internal standard)		2.175	2.175	2	2
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)		0.551	0.551	7	7
			~~Fluorene~~ 4-Nitrophenol (3rd internal standard)		0.296	0.296	5	5
			Pentachlorophenol (4th internal standard)		0.151	0.151	1	1
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.732	0.732	9	9
			Benzo(a)pyrene (6th internal standard)		1.346	1.346	6	6
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E2A

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: C

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	72.853	73	73	0
2-Fluorobiphenyl	↓	82.277	82	82	↓
Terphenyl-d14	↓	81.911	82	82	↓
Phenol-d5	200	161.947	81	81	↓
2-Fluorophenol	↓	164.312	82	82	↓
2,4,6-Tribromophenol	↓	161.078	81	81	↓
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25550E09

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: C

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC) MSC = Matrix spike concentration MSDC = Matrix spike duplicate concentration

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol	2057.61	2057.61	ND	1763.08	1906.12	86	86	93	93	8	8
N-Nitroso-di-n-propylamine	↓	↓	↓	1765.70	1845.19	86	86	90	90	4	4
4-Chloro-3-methylphenol	↓	↓	↓	1859.95	1873.19	90	90	91	91	1	1
Acenaphthene											
Pentachlorophenol	↓	↓	↓	1619.94	1638.15	79	79	80	80	1	1
Pyrene											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E07

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol	1666.67	NA	1504.72	NA	90	90				
N-Nitroso-di-n-propylamine	↓	↓	1435.71	↓	86	86				
4-Chloro-3-methylphenol	↓	↓	1532.77	↓	92	92				
Acenaphthene										
Pentachlorophenol	↓	NA	1339.51	NA	80	80	NA			
Pyrene										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E2a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_l)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_l	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. 1, EET:

Conc. = $\frac{(8514)(40)(1000)(\quad)(\quad)}{(956572)(0.672)(30)(0.792)(\quad)}$

=

22 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 20, 2010

LDC Report Date: June 8, 2011

Matrix: Sediment

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8270C using Selected Ion Monitoring (SIM) for Semivolatiles.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 30.0% for all compounds.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination (r^2) was greater than or equal to 0.990 with the following exceptions:

Average relative response factors (RRF) for all compounds were within method and validation criteria.

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs) and 25.0% for all other compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for all compounds with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
1/9/11	Benzo(b)fluoranthene	27	SED-005-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5MS SED-005-SIV-SD-0.0-0.5MSD SBLKLK362	J (all detects) UJ (all non-detects)	A

All of the continuing calibration relative response factors (RRF) were within method and validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No semivolatile contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5MS/MSD (SED-005-SIV-SD-0.0-0.5)	N-Nitrosodimethylamine	-	23 (48-113)	126 (≤30)	J (all detects) UJ (all non-detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
SED-007-SIV-SD-0.0-0.6	Perylene-d12	148031 (251077-1004306)	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	A

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE046	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No semivolatiles were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Chrysene	0.71	2.6	114 (≤50)	J (all detects)	A
Phenanthrene	0.85	1.6	61 (≤50)	J (all detects)	A
Benzo(a)pyrene	2.1U	1.2	200 (≤50)	J (all detects) UJ (all non-detects	A
Benzo(b)fluoranthene	2.1U	2.6	200 (≤50)	J (all detects) UJ (all non-detects	A

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Benzo(g,h,i)perylene	2.1U	1.9	200 (≤50)	J (all detects) UJ (all non-detects	A
Benzo(k)fluoranthene	2.1U	0.84	200 (≤50)	J (all detects) UJ (all non-detects	A
Fluoranthene	2.1U	2.6	200 (≤50)	J (all detects) UJ (all non-detects	A
Indeno(1,2,3-cd)pyrene	2.1U	1.4	200 (≤50)	J (all detects) UJ (all non-detects	A
Di-n-octylphthalate	23U	15	200 (≤50)	J (all detects) UJ (all non-detects	A
Pyrene	2.1U	2.1	200 (≤50)	J (all detects) UJ (all non-detects	A

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE046

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE046	SED-005-SIV-SD-0.0-0.5	Benzo(b)fluoranthene	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE046	SED-005-SIV-SD-0.0-0.5	N-Nitrosodimethylamine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE046	SED-007-SIV-SD-0.0-0.6	Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	A	Internal standards (area) (I)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE046	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	Chrysene Phenanthrene	J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DE046	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene Di-n-octylphthalate Pyrene	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E2b **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11
SDG #: DE046 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
SVOA 2nd Reviewer: [illegible]

METHOD: GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ (EPA SW 846 Method 8270C-SIM)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/10
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%RSD ≤ 30, r²
IV.	Continuing calibration/ICV	SW	ICV/CCV
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	SW	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1, 3
XVII.	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: sediments

1	DUP01-SIV-QC-122010	11	SBLKLK362	21		31	
2	SED-003-SIV-SD-0.0-0.5	12		22		32	
3	SED-005-SIV-SD-0.0-0.5	13		23		33	
4	SED-007-SIV-SD-0.0-0.6	14		24		34	
5	SED-008-SIV-SD-0.0-0.5	15		25		35	
6	SED-034-SIV-SD-0.0-0.5	16		26		36	
7	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5MSD	19		29		39	
10		20		30		40	

LDC #: 25550E2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Method: Semivolatiles (EPA SW 846 Method 8270C)

Validation Area	Yes	No	NA	Findings/Comments
Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
GC/MS Instrument performance check				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were all percent relative standard deviations (%RSD) ≤ 30% and relative response factors (RRF) > 0.05?	✓			
Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	✓			
Were all percent differences (%D) ≤ 25% and relative response factors (RRF) ≥ 0.05?		✓		
Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
Surrogates				
Were all surrogate %R within QC limits?	✓			
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
Matrix spike/Matrix spike duplicate				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
Laboratory control samples (LCS)				
Was an LCS analyzed for this SDG?	✓			

LDC #: 25550E2

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
Were internal standard area counts within -50% or +100% of the associated calibration standard?		✓		
Were retention times within ± 30 seconds from the associated calibration standard?	✓			
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			✓	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			✓	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			✓	
System performance was found to be acceptable.	✓			
Overall assessment of data was found to be acceptable.	✓			
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

cMETHOD: GC/MS BNA (EPA Method 8270)

PRY

A. Phenol	S. Naphthalene	KK. 2,4-Dinitrotoluene	CCC. Benzo(a)anthracene	UUU.Benzo(b)thiophene
B. Bis (2-chloroethyl) ether	T. 4-Chloroaniline	LL. Diethylphthalate	DDD. Chrysene	VVV.Naphthobenzothiophene
C. 2-Chlorophenol	U. Hexachlorobutadiene	MM. 4-Chlorophenyl-phenyl ether	EEE. Bis(2-ethylhexyl)phthalate	WWW.Benzo(e)pyrene
D. 1,3-Dichlorobenzene	V. 4-Chloro-3-methylphenol	NN. Fluorene	FFF. Di-n-octylphthalate	XXX. 2,6-Dimethylnaphthalene
E. 1,4-Dichlorobenzene	W. 2-Methylnaphthalene	OO. 4-Nitroaniline	GGG. Benzo(b)fluoranthene	YYY. 2,3,5-Trimethylnaphthalene
F. 1,2-Dichlorobenzene	X. Hexachlorocyclopentadiene	PP. 4,6-Dinitro-2-methylphenol	HHH. Benzo(k)fluoranthene	ZZZ. Perylene
G. 2-Methylphenol	Y. 2,4,6-Trichlorophenol	QQ. N-Nitrosodiphenylamine (1)	III. Benzo(a)pyrene	AAAA. Dibenzothiophene
H. 2,2'-Oxybis(1-chloropropane)	Z. 2,4,5-Trichlorophenol	RR. 4-Bromophenyl-phenylether	JJJ. Indeno(1,2,3-cd)pyrene	BBBB. Benzo(a)fluoranthene
I. 4-Methylphenol	AA. 2-Chloronaphthalene	SS. Hexachlorobenzene	KKK. Dibenz(a,h)anthracene	CCCC. Benzo(b)fluorene
J. N-Nitroso-di-n-propylamine	BB. 2-Nitroaniline	TT. Pentachlorophenol	LLL. Benzo(g,h,i)perylene	DDDD. cis/trans-Decalin
K. Hexachloroethane	CC. Dimethylphthalate	UU. Phenanthrene	MMM. Bis(2-Chloroisopropyl)ether	EEEE. Biphenyl
L. Nitrobenzene	DD. Acenaphthylene	VV. Anthracene	NNN. Aniline	FFFF. Retene
M. Isophorone	EE. 2,6-Dinitrotoluene	WW. Carbazole	OOO. N-Nitrosodimethylamine	GGGG. C30-Hopane
N. 2-Nitrophenol	FF. 3-Nitroaniline	XX. Di-n-butylphthalate	PPP. Benzoic Acid	
O. 2,4-Dimethylphenol	GG. Acenaphthene	YY. Fluoranthene	QQQ. Benzyl alcohol	
P. Bis(2-chloroethoxy)methane	HH. 2,4-Dinitrophenol	ZZ. Pyrene	RRR. Pyridine	
Q. 2,4-Dichlorophenol	II. 4-Nitrophenol	AAA. Butylbenzylphthalate	SSS. Benzidine	
R. 1,2,4-Trichlorobenzene	JJ. Dibenzofuran	BBB. 3,3'-Dichlorobenzidine	TTT. 1-Methylnaphthalene	

LDC #: 25550E2b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours of sample analysis for each instrument?
Y N N/A Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y N N/A Were all %D and RRFs within the validation criteria of ≤25 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤25.0%)	Finding RRF (Limit: >0.05)	Associated Samples	Qualifications
	1/9/11	ICV	GGG	27		SBLKLK362, 3, 8, 9	J/UJ/A

LDC #: 255 50 E2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: ✓

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		8 + 9	GGG	( )	23 (48-113)	126 (30)	3	J/UJ/A
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC #: 25550E2b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
Y N N/A Were all internal standard area counts within -50 to +100 of the associated calibration standard?
Y N N/A Were the retention times of the internal standards within +/- 30 seconds of the retention times of the associated calibration standard?

#	Date	Sample ID	Internal Standard	Area (Limits)	RT (Limits)	Qualifications
		4	PRY	148031 (251077-1004306)		J/UJ/R see list

* QC limits are advisory
IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10
IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

LDC #: 25550E2b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds identified in the field duplicate pairs?

Compound	Concentration (ug/kg) 1	3	≤ 50 RPD	
DDD	0.71	2.6	114	J/Add
UU	0.85	1.6	61	↓
III	2-1 ~~0.84~~ U	1.2	200	J/UJ/A
GGG	2-1 0.8~~4~~ U	2.6	↓	↓
LLL	2-1 0.8~~4~~ U	1.9	↓	↓

Compound	Concentration (ug/kg) 1	3	≤ 50 RPD	
HHH	2-1 ~~0.84~~ U	0.84	200	J/UJ/A
YY	2-1 ~~0.84~~ U	2.6	↓	↓
JJJ	2-1 ~~0.84~~ U	1.4		
FFF	2-1 ~~3.76~~ U	15		
ZZ	2-1 ~~0.84~~ U	2.1	↓	↓

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 25350 E2D

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (1 std)	Recalculated RRF (1 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/9/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	1.042	1.042	1.096	1.096	8	8
			Fluorene (3rd internal standard)	1.178	1.178	1.319	1.319	11	11
			Pentachlorophenol (4th internal standard)	1.158	1.158	1.140	1.140	10	10
			~~Bis(2-ethylhexyl)phthalate~~ (5th internal standard)	1.160	1.160	1.216	1.216	8	8
			Benzo(a)pyrene (6th internal standard)	1.121	1.121	1.137	1.137	12	12
2	ICAL	1/11/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	0.984	0984	1.085	1.085	10	10
			Fluorene (3rd internal standard)	1.279	1.279	1.315	1.315	9	9
			Pentachlorophenol (4th internal standard)	1.055	1.055	1.131	1.131	9	9
			~~Bis(2-ethylhexyl)phthalate~~ (5th internal standard)	1.109	1.109	1.175	1.175	8	8
			Benzo(a)pyrene (6th internal standard)	1.087	1.087	1.128	1.128	9	9
3			Phenol (1st internal standard)						
			Naphthalene (2nd internal standard)						
			Fluorene (3rd internal standard)						
			Pentachlorophenol (4th internal standard)						
			Bis(2-ethylhexyl)phthalate (5th internal standard)						
			Benzo(a)pyrene (6th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E26

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270C)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ccv 18:17	1/10/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.096	1.081	1.081	1	1
			Fluorene (3rd internal standard)	1.319	1.299	1.299	2	2
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.140	1.177	1.177	3	3
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.216	1.167	1.167	4	4
			Benzo(a)pyrene (6th internal standard)	1.137	1.143	1.143	1	1
2	ccv 6:54	1/12/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.085	1.065	1.065	2	2
			Fluorene (3rd internal standard)	1.315	1.221	1.221	7	7
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.131	1.121	1.121	1	1
			Bis(2-ethylhexyl)phthalate Chrysene (5th internal standard)	1.175	1.157	1.157	2	2
			Benzo(a)pyrene (6th internal standard)	1.128	1.146	1.146	2	2
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			Benzo(a)pyrene (6th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E86

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer:

METHOD: GC/MS Semivolatiles (EPA SW 846 Method 8270)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	1.0	0.954	95	95	0
2-Fluorobiphenyl	↓	0.873	87	87	↓
Terphenyl-d14	↓	1.194	119	119	↓
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5					
2-Fluorobiphenyl					
Terphenyl-d14					
Phenol-d5					
2-Fluorophenol					
2,4,6-Tribromophenol					
2-Chlorophenol-d4					
1,2-Dichlorobenzene-d4					

LDC #: 25550E8D

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentation

RPD = I MSC - MSC I * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD samples: 8 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acenaphthene	41.15	41.15	ND	39.90	39.57	97	97	96	96	1	1
Pentachlorophenol											
Pyrene	↓	↓	2.09	38.03	40.0	87	87	92	92	6	6

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E0D

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SC/SA Where: SSC = Spike concentration
SA = Spike added

RPD = | LCSC - LCSDC | * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spike Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
Phenol										
N-Nitroso-di-n-propylamine										
4-Chloro-3-methylphenol										
Acenaphthene	33.33	NA	30.98	NA	93	93				
Pentachlorophenol										
Pyrene	↓	↓	31.92	↓	96	96	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E0b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(V_t)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_i)(\%S)}$

A_x	=	Area of the characteristic ion (EICP) for the compound to be measured
A_{is}	=	Area of the characteristic ion (EICP) for the specific internal standard
I_s	=	Amount of internal standard added in nanograms (ng)
V_o	=	Volume or weight of sample extract in milliliters (ml) or grams (g).
V_i	=	Volume of extract injected in microliters (ul)
V_t	=	Volume of the concentrated extract in microliters (ul)
Df	=	Dilution Factor.
%S	=	Percent solids, applicable to soil and solid matrices only.
2.0	=	Factor of 2 to account for GPC cleanup

Example:

Sample I.D. #4 , Benzo(b) fluoranthene

Conc. = (14745)(1.0)(1000)( )( )( )
(148031)(1.162)(30)(0.822)

= 35 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 20, 2010

LDC Report Date: June 9, 2011

Matrix: Sediment

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8081A for Chlorinated Pesticides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990 .

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/22/11	CCV	RTXCLP2	4,4'-DDT	49.7	SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A
1/22/11	CCV	RTXCLP1	4,4'-DDT	60.1	SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A
1/22/11	CCV	RTXCLP2	Toxaphene	33.5	SED-007-SIV-SD-0.0-0.6	J (all detects) UJ (all non-detects)	A
1/22/11	CCV	RTXCLP1	Toxaphene	55.5	SED-007-SIV-SD-0.0-0.6	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/24/11	CCV	RTXCLP1	4,4'-DDE 4,4'-DDT	22.7 38.3	SED-037-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
1/24/11	CCV	RTXCLP2	4,4'-DDT	31.1	SED-037-SIV-SD-0.0-0.5	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

The individual 4,4'-DDT and Endrin breakdowns (%BD) were less than or equal to 15.0% with the following exceptions:

Date	Standard ID	Column	Compound	%BD	Associated Samples	Flag	A or P
1/22/11	PEM	RTXCLP1	4,4'-DDT	17.7	SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5	J (all detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SED-003-SIV-SD-0.0-0.5	RTXCLP2	Decachlorobiphenyl	270 (20-120)	All TCL compounds except 4,4'-DDT	J (all detects)	A
SED-005-SIV-SD-0.0-0.5	RTXCLP1	Tetrachloro-m-xylene	43 (50-130)	All TCL compounds	J (all detects) UJ (all non-detects)	A
SED-008-SIV-SD-0.0-0.5	RTXCLP2	Tetrachloro-m-xylene Decachlorobiphenyl	15 (50-130) 0 (20-120)	All TCL compounds except 4,4'-DDT	J (all detects) R (all non-detects)	A

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SED-034-SIV-SD-0.0-0.5	RTXCLP2	Tetrachloro-m-xylene Decachlorobiphenyl	20 (50-130) 8 (20-180)	All TCL compounds	J (all detects) R (all non-detects)	A
SED-037-SIV-SD-0.0-0.5	RTXCLP2	Decachlorobiphenyl	348 (20-120)	All TCL compounds except 4,4'-DDT 4,4'-DDE	J (all detects)	A

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5MS/MSD (SED-005-SIV-SD-0.0-0.5)	4,4'-DDE 4,4'-DDD Endosulfan II Endrin aldehyde 4,4'-DDT	188 (18-161) - - - -	240 (18-161) - - - 186 (10-176)	- 55 (≤50) 51 (≤50) 63 (≤35) -	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	Flag	A or P
LCS (All samples in SDG DE046)	Heptachlor epoxide	136 (65-131)	J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Endrin aldehyde	0.27	0.42U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Heptachlor epoxide	0.078	0.21U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Mirex	0.095	0.42U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Chlorinated Pesticides - Data Qualification Summary - SDG DE046

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE046	SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5	4,4'-DDT	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE046	SED-007-SIV-SD-0.0-0.6	Toxaphene	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE046	SED-037-SIV-SD-0.0-0.5	4,4'-DDE 4,4'-DDT	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE046	SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5	4,4'-DDT	J (all detects)	A	Continuing calibration (PEM %D) (M)
DE046	SED-003-SIV-SD-0.0-0.5	All TCL compounds except 4,4'-DDT	J (all detects)	A	Surrogate spikes (%R) (S)
DE046	SED-005-SIV-SD-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	A	Surrogate spikes (%R) (S)
DE046	SED-008-SIV-SD-0.0-0.5	All TCL compounds except 4,4'-DDT	J (all detects) R (all non-detects)	A	Surrogate spikes (%R) (S)
DE046	SED-034-SIV-SD-0.0-0.5	All TCL compounds	J (all detects) R (all non-detects)	A	Surrogate spikes (%R) (S)
DE046	SED-037-SIV-SD-0.0-0.5	All TCL compounds except 4,4'-DDT 4,4'-DDE	J (all detects)	A	Surrogate spikes (%R) (S)
DE046	SED-005-SIV-SD-0.0-0.5	4,4'-DDE 4,4'-DDT	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE046	SED-005-SIV-SD-0.0-0.5	4,4'-DDD Endosulfan II Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Heptachlor epoxide	J (all detects)	P	Laboratory control samples (%R)(L)
DE046	DUP01-SIV-QC-122010	Mirex	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE046	SED-003-SIV-SD-0.0-0.5	gamma-BHC Endrin	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE046	SED-007-SIV-SD-0.0-0.6	gamma-BHC	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE046	SED-037-SIV-SD-0.0-0.5	4,4'-DDT	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE046	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	4,4'-DDE 4,4'-DDT Endrin aldehyde Heptachlor epoxide Mirex	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E3a

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 6/3/11

SDG #: DE046

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Chlorinated Pesticides (EPA SW846 Method 8081A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/10
II.	GC/ECD Instrument Performance Check	SW	see CCV
III.	Initial calibration	A	% RSD ≤ 20, r²
IV.	Continuing calibration/ICV	SW	ICV / CCV ≤ 20
V.	Blanks	A ~~SW~~	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 1 + 3
XVI.	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: sediments

1 †	DUP01-SIV-QC-122010	11	PBLK18363	21		31	
2 †	SED-003-SIV-SD-0.0-0.5	12		22		32	
3 –	SED-005-SIV-SD-0.0-0.5	13		23		33	
4 †	SED-007-SIV-SD-0.0-0.6	14		24		34	
5 †	SED-008-SIV-SD-0.0-0.5	15		25		35	
6 –	SED-034-SIV-SD-0.0-0.5	16		26		36	
7 †	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5MSD	19		29		39	
10		20		30		40	

Notes:

LDC #: 25550E3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: PT
2nd Reviewer: A

Method: Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/ECD Instrument performance check				
Was the instrument performance found to be acceptable?		✓		
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Was a linear fit used for evaluation? If yes, were all percent relative standard deviations (%RSD) $\leq$ 20%?	✓			
Was a curve fit used for evaluation? If Yes, what was the acceptance criteria used?	✓			
Did the initial calibration meet the curve fit acceptance criteria?	✓			
Were the RT windows properly established?	✓			
Were the required standard concentrations analyzed in the initial calibration?	✓			
IV. Continuing calibration				
What type of continuing calibration calculation was performed? ___%D or ___%R	✓			
Were Evaluation mix standards analyzed prior to the initial calibration and sample analysis?	✓			
Were endrin and 4,4'-DDT breakdowns $\leq$ 15%.0 for individual breakdown in the Evaluation mix standards?		✓		
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) $\leq$ ~~15%.0~~ 20 or percent recovieries 85-115%?		✓		
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Were extract cleanup blanks analyzed with every batch requiring clean-up?			✓	
Was there contamination in the method blanks or clean-up blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?		✓		
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?	✓			
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	

LDC #: 35550E3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Reviewer: [illegible]
2nd Reviewer: [illegible]

Validation Area	Yes	No	NA	Findings/Comments
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions, dry weight factors, and clean-up activities applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG.
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH.
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II.
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ.
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. DB 608	KK.
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. DB 1701	LL.
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE.	MM.
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF.	NN.

Notes:_____

LDC #: 25550F3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT

METHOD: ✓ GC ___ HPLC

2nd Reviewer:

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".
What type of continuing calibration calculation was performed? ___%D or ___RPD
Y N N/A Were continuing calibration standards analyzed at the required frequencies?
Y N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤15.0%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ ~~15.0~~ 20)	RT (limit)	Associated Samples	Qualifications
	1/22/11	CCV	RTX CLP2	θ	49.7	( )	4, 5	J/UJ/A (C)
	18:34		RTX CLP1	θ	60.1	( )		
						( )		
						( )		
	1/22/11	CCV	RTX CLP2	U	33.5	( )	4	J/UJ/A
	~~18:39~~		RTX CLP1	U	55.5	( )		(C)
	19:04					( )		
						( )		
						( )		
						( )		
	1/24/11	CCV	RTX CLP1	J	22.7	( )	7	J/UJ/A (C)
	22:30			θ	38.3	( )	↓	↓
			RTX CLP2	θ	31.1	( )	↓	↓
						( )		
						( )		
						( )		
	1/22/11	PEM	RTX CLP1	θ	17.7 (≤15)	( )	4, 5	J/A Det (M)
	18:19					( )		QUAL θ only
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		

LDC #: 25505E3c

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ✓ GC ___ HPLC

Are surrogates required by the method? Yes___ or No___.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

(S)

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	2	RTX CLP2	O	270 (20-120)	J/A det qual all except O
	3	RTX CLP1	Y	43 (50-130)	J/UJ/A all
	5	RTX CLP2	Y	15 (50-130)	J/R/A qual all except O
			O	0 (20-120)	
	6	RTX CLP2	Y	20 (50-130)	J/R/A all
			O	8 (20-~~120~~ 120)	
	7	RTX CLP2	O	348 (20-~~120~~ 120)	J/A det qual all except J/O

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 25550E39

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y N N/A Was an MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

Y N N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within QC limits?

(Q)

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	8+9	J	188 (18-161)	240 (18-161)	( )	3	J/A det
		M	( )	( )	55 (50)	↓	J/A det
		L	( )	( )	51 (50)	↓	↓
		R	( )	( )	63 (35)	↓	↓
		O	( )	186 (10-176)	( )	↓	↓

LDC #: 35532E3a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ✓ GC ___ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y N N/A Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A Was an LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

(2)

#	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	LCS	G	136 (65-131)	( )	( )	all	J/P det
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 25502E39

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer: 2

METHOD: ✓ GC __ HPLC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y (N) N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD Bet 2 column Finding ≤40	Associated Samples	Qualifications
	Mirex	64.14	1	J/A det * X111
	D	91.29	2	↓
	K	116.68		
	D	88.97	4	↓
	θ	47.59	7	↓

Comments: See sample calculation verification worksheet for recalculations

LDC#: 25550E3c

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Pesticides Method 8081A

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

FD

Compound	Concentration (ug/Kg)		≤ 50	
	1	3	RPD	
J	0.71	0.53U	200	J/UJ/A
O	0.86	0.83U	200	
R	0.27	0.47 0.19U	200	
G	0.078	0.21 0.10U	200	
Mirex	0.095	0.47 0.10U	200	

V:\FIELD DUPLICATES\templates\25550E3a.wpd

LDC #: 25550E3
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JMG
2nd Reviewer: CA

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (10/100 std)	Recalculated CF (10/10std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/13/11	4,4'-DDT RTXCLP1	3.42×10^3	3.42×10^3	3.47×10^3	3.47×10^3	3.3	3.3
			Methoxychlor	2.08×10^3	2.08×10^3	2.14×10^3	2.14×10^3	8.6	8.6
			RTXCLP2	2.47×10^3	2.47×10^3	2.58×10^3	2.58×10^3	6.1	6.1
2			↓	1.24×10^3	1.24×10^3	1.25×10^3	1.25×10^3	4.9	4.9
3	ICAL	1/14/11	↓	3.45×10^3	3.45×10^3	3.70×10^3	3.70×10^3	5.7	5.7
			↓	1.58×10^3	1.58×10^3	1.63×10^3	1.63×10^3	10.2	10.2
			↓	1.79×10^3	1.79×10^3	1.83×10^3	1.83×10^3	2.6	2.6
4			↓	7.35×10^2	7.35×10^2	7.68×10^2	7.68×10^2	5.6	5.6

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results:

LDC #: 25580E39
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer:
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (10/10 std)	Recalculated CF (10/10 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/21/11	4,4-DDT RTXclp1	3.13×10^3	3.13×10^3	3.38×10^3	3.38×10^3	13.1	13.1
			Methoxychlor ↓	1.34×10^3	1.34×10^3	1.46×10^3	1.46×10^3	15.8	15.8
			↓ RTXclp2	1.12×10^3	1.12×10^3	1.15×10^3	1.15×10^3	2.9	2.9
2			↓ ↓	5.31×10^2	5.31×10^2	5.54×10^2	5.54×10^2	6.2	6.2
3	ICAL	1/24/11	↓	3.10×10^3	3.10×10^3	3.36×10^3	3.36×10^3	17.6	17.6
				1.30×10^3	1.30×10^3	1.42×10^3	1.42×10^3	19.4	19.4
			↓	1.14×10^3	1.14×10^3	1.16×10^3	1.16×10^3	2.6	2.6
4			↓	5.32×10^2	5.32×10^2	5.43×10^2	5.43×10^2	6.9	6.9

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	~~VGA~~ CCV	1/14/11	4,4-DDT RTX CLP1	20.0	19.90	19.90	0.5	0.5
			methoxychlor	100.0	95.72	95.72	4.3	4.3
			RTX CLP2	↓	19.54	19.54	2.3	2.3
2			↓	↓	98.90	98.90	1.1	1.1
3	CCV 18:34	1/22/11	4,4'-DDT RTX CLP2	19.99	10.06	10.6	49.7	49.7
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25530E59
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID:__________

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene			0.77927	75	75	0
Decachlorobiphenyl	RTX CLP2	1.04	0.853145	82	82	0
Decachlorobiphenyl						

Sample ID:__________

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:__________

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Sample ID:__________

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene						
Decachlorobiphenyl						
Decachlorobiphenyl						

Notes:__________

LDC #: 25505E3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = | MS - MSD | * 2/(MS + MSD)

MS = Matrix spike percent recovery

MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	-	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
gamma-BHC	0.33	0.33	ND	0.19	0.28	58	58	85	85	38	38
4,4'-DDT	0.65	0.65	ND	0.84	1.21	129	129	186	186	36	36

Comments: Refer ot Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E39
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = | LCS - LCSD | * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: WBS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
gamma-BHC	0.33	NA	0.29	NA	88	88				
4,4'-DDT	0.65	↓	0.55	↓	85	85	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E3S
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd reviewer: [illegible]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Example:

Sample I.D. #1 4,4'-PDT

$$\text{Conc.} = \frac{(18807)(10)(0.4)}{(1.83 \times 10^3)(60)(0.792)}$$

=

0.86 ug/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Note: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 20, 2010

LDC Report Date: June 21, 2011

Matrix: Sediment

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the following exceptions:

Sample	Column	Surrogate	%R (Limits)	Compound	Flag	A or P
SED-005-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	134 (45-120)	All TCL compounds	J (all detects)	A
SED-034-SIV-SD-0.0-0.5	Not specified	Decachlorobiphenyl	157 (45-120)	All TCL compounds	J (all detects)	P

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	Affected Compound	Flag	A or P
LCS/D (All samples in SDG DE046)	Aroclor-5442	69 (75-125)	53 (75-125)	Aroclor-5432 Aroclor-5442 Aroclor-5460	J (all detects) UJ (all non-detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XII. Target Compound Identification

All target compound identifications were within validation criteria.

XIII. Compound Quantitation and Reported CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
SED-007-SIV-SD-0.0-0.6	PCB-1254	123.34	J (all detects)	A
SED-034-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	99.70 62.74	J (all detects) J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE046	All compounds reported below the RL.	J (all detects)	A

XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XV. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No polychlorinated biphenyls was detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Aroclor 5460	4.2U	8.0	200 (≤50)	J (all detects) UJ (all non-detects)	A
PCB-1254	2.1U	12	200 (≤50)	J (all detects) UJ (all non-detects)	A
PCB-1260	2.1U	4.2	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE046

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE046	SED-005-SIV-SD-0.0-0.5	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE046	SED-034-SIV-SD-0.0-0.5	All TCL compounds	J (all detects)	P	Surrogate spikes (%R) (S)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Aroclor-5432 Aroclor-5442 Aroclor-5460	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R)(L)
DE046	SED-007-SIV-SD-0.0-0.6	PCB-1254	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE046	SED-034-SIV-SD-0.0-0.5	PCB-1254 PCB-1260	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*XIII)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE046	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	Aroclor 5460 PCB-1254 PCB-1260	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE046

Level IV

Laboratory: Lancaster Laboratories

Date: 6/3/11

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/10
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	A	%D ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	SW	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	A	
XIII.	Compound quantitation and reported CRQLs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 1,3
XVI.	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: Sediments

1	DUP01-SIV-QC-122010 D	11	PBLK35356	21		31	
2	SED-003-SIV-SD-0.0-0.5	12		22		32	
3	SED-005-SIV-SD-0.0-0.5 D	13		23		33	
4	SED-007-SIV-SD-0.0-0.6	14		24		34	
5	SED-008-SIV-SD-0.0-0.5	15		25		35	
6	SED-034-SIV-SD-0.0-0.5	16		26		36	
7	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5MSD	19		29		39	
10		20		30		40	

Notes:

LDC #: 75550E 3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: [illegible]
2nd Reviewer: [illegible]

Method: ✓ GC _____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?		✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?			✓	
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?		✓		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?		✓		
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓	✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 35530E3b
SDG #: all cont

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

LDC #: 25550E 3b

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: __ GC __ HPLC

Are surrogates required by the method? Yes____ or No____.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were surrogates spiked into all samples and blanks?

Y N N/A Did all surrogate recoveries (%R) meet the QC limits?

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	2		O	122 (45-120)	no qual 5X DL
				( )	
	3		O	134 (45-120)	J/+ dut
				( )	
	6		↓	157 (45-120)	J/+ dut
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene		
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin		
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin		
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate		
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 25550E36

SDG #: -

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8081/8082)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A [Y circled] Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG?

Y N N/A [N circled] Were the LCS percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

Y N N/A [Y circled] Was a LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		LCS/D	**	69 (75-125)	53 (75-125)	( )	All	J/UJ/P
				( )	( )	( )		(All Aroclor/ 5432
				( )	( )	( )		5442
				( )	( )	( )		5460
				( )	( )	( )		
		** Aroclor 5442		( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25550 E3 h

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer: e

METHOD: ✓ **GC** __ **HPLC**

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	% RPD But 2 column Finding ≤ 40	Associated Samples	Qualifications
	AA	123.34	4	J/A det
	AA = PCB-1254			
	BB = PCB-1260			
	AA	99.70	6	↓
	BB	62.74	↓	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25550E3b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer:

METHOD: ✓ GC ___ HPLC
Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ng/kg)		%RPD Limit 50	Qualification Parent only / All Samples
	1	3		
Aroclor 5460	4.2 ~~1.3~~ U	8.0	200	J/UJ/A
AA	2.1 ~~0.42~~ U	12	↓	↓
BB	2.1 ~~0.42~~ U	4.2	↓	↓
AA = PCB 1254				
BB = PCB 1260				

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 25550E 3b
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported CF (200 std)	Recalculated CF (200 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	12/28/10	Aroclor 1260-1 ZBR1	70	70	68	68	6.8	6.8
			↓ ZBR2	170	170	164	164	5.7	5.7
2	ICAL	1/5/11	↓	57	57	62	62	6.9	6.9
			↓	132	132	150	150	7.2	7.2
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 35520E 3b
SDG #: pw comp

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: GC_____HPLC_____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	ccv 9:54	12/31/10	Aroclor 1260 ZBR1	200	186.38	186.38	6.8	6.8
			↓ ZBR2	200	199.52	199.52	0.2	0.2
2	ccv ~~10:15~~ 17:44	12/31/10	↓	200	233.86	233.86	16.9	16.9
			↓	200	236.54	236.54	18.3	18.3
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 45350E3b
SDG #: see cover

METHOD: ✓ GC ___ HPLC

Reviewer: FT
2nd reviewer: C

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ZB R2	1.041	~~1.01503~~ 1.02021	98	98	0
DCB	✓		1.130754	108	109	1

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

Sample ID: ___

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

LDC #: 26 33CE ?9
SDG #: see cover

Reviewer: FT
2nd Reviewer: C

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(((SSCMS - SSCMSD) * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/Kg)		Sample Conc. (ug/Kg)	Spike Sample Concentration (ug/Kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	—	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
PCB-1260	16.67	16.67	3.36	28.06	26.05	148	148	136	136	7	7

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25552E3b
SDG #: all covers

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: C

METHOD: __ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = I LCS - LCSD I * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration
LCS = Laboratory control sample percent recovery
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: 20

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
PCB 1260	16.67	NA	20.68	NA	124	124	NA			

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E 3b
SDG #: pesticides

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #2 Compound Name Aroclor 1260

Concentration = $\frac{33}{0.739}$

= 45 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	Aroclor 1260-4 =	6027.437012 (~~66~~ 2000) (5) = 17.027			
		(59)(60)(1000			
	1260-4	= 17.027			
	-5	= 57.129			
	-6	= 25.284			
		Ave = 33			

Comments: _____

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Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 20, 2010

LDC Report Date: June 8, 2011

Matrix: Sediment

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD
SED-005-SIV-SD-0.0-0.5DUP

Introduction

This data review covers 10 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7000 for Metals. The metals analyzed were Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, and Zirconium.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. ICPMS Tune

The mass calibration was within 0.1 AMU and the percent relative standard deviation (%RSD) was less than or equal to 5% .

III. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No metal contaminants were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Copper Phosphorus Tin	0.091 mg/Kg 1.732 mg/Kg 1.325 mg/Kg	All samples in SDG DE046
ICB/CCB	Antimony Beryllium Titanium	0.56 ug/L 0.059 ug/L 0.45 ug/L	All samples in SDG DE046
ICB/CCB	Magnesium	38.6 ug/L	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5
ICB/CCB	Magnesium	42.1 ug/L	SED-003-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
DUP01-SIV-QC-122010	Antimony Tin	0.13 mg/Kg 2.2 mg/Kg	0.13U mg/Kg 2.2U mg/Kg
SED-003-SIV-SD-0.0-0.5	Antimony Tin	0.10 mg/Kg 2.3 mg/Kg	0.10U mg/Kg 2.3U mg/Kg
SED-005-SIV-SD-0.0-0.5	Antimony Tin	0.17 mg/Kg 2.3 mg/Kg	0.17U mg/Kg 2.3U mg/Kg
SED-007-SIV-SD-0.0-0.6	Antimony Tin	0.14 mg/Kg 2.4 mg/Kg	0.14U mg/Kg 2.4U mg/Kg
SED-008-SIV-SD-0.0-0.5	Antimony Tin	0.11 mg/Kg 2.9 mg/Kg	0.11U mg/Kg 2.9U mg/Kg
SED-034-SIV-SD-0.0-0.5	Tin	2.6 mg/Kg	2.6U mg/Kg
SED-037-SIV-SD-0.0-0.5	Antimony Tin	0.25 mg/Kg 3.4 mg/Kg	0.25U mg/Kg 3.4U mg/Kg

No field blanks were identified in this SDG.

V. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

VI. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5MS/MSD (All samples in SDG DE046)	Antimony	40 (75-125)	45 (75-125)	-	J (all detects) UJ (all non-detects)	A
SED-005-SIV-SD-0.0-0.5MS/MSD (All samples in SDG DE046)	Arsenic Cadmium Molybdenum Nickel Thallium Vanadium	- 129 (75-125) 133 (75-125) 130 (75-125) 129 (75-125) -	135 (75-125) 126 (75-125) 135 (75-125) 141 (75-125) - 132 (75-125)	- - - - - -	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A

VII. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Analyte	RPD (Limits)	Difference (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5DUP (All samples in SDG DE046)	Arsenic	43 (≤20)	-	J (all detects) UJ (all non-detects)	A
	Barium	38 (≤20)	-		
	Chromium	45 (≤20)	-		
	Cobalt	36 (≤20)	-		
	Copper	34 (≤20)	-		
	Lead	26 (≤20)	-		
	Molybdenum	-	0.2846 mg/Kg (≤0.240)		
	Nickel	46 (≤20)	-		
	Vanadium	36 (≤20)	-		
	Zinc	37 (≤20)	-		

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Internal Standards

All internal standard percent recoveries (%R) were within QC limits.

X. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

XI. ICP Serial Dilution

ICP serial dilution analysis was performed by the laboratory. The analysis criteria were met with the following exceptions:

Diluted Sample	Analyte	%D (Limits)	Associated Samples	Flag	A or P
SED-005-SIV-SD-0.0-0.5	Barium	16 (≤10)	All samples in SDG DE046	J (all detects) UJ (all non-detects)	A
	Lead	18 (≤10)			
	Lithium	13 (≤10)			
	Nickel	21 (≤10)			
	Strontium	12 (≤10)			
	Vanadium	12 (≤10)			
	Zinc	17 (≤10)			

XII. Sample Result Verification

All sample result verifications were acceptable.

All metals reported below the RL and above the MDL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE046	All analytes reported below the RL and above the MDL.	J (all detects)	A

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Aluminum	15100	15200	1 (≤50)	-	-
Antimony	0.13	0.17	27 (≤50)	-	-
Arsenic	5.3	5.6	6 (≤50)	-	-
Barium	122	113	8 (≤50)	-	-
Beryllium	0.65	0.65	0 (≤50)	-	-
Boron	5.0	4.1	20 (≤50)	-	-
Cadmium	0.27	0.22	20 (≤50)	-	-
Calcium	2620	2560	2 (≤50)	-	-
Chromium	21.4	25.3	17 (≤50)	-	-
Cobalt	6.7	7.0	4 (≤50)	-	-
Copper	10.4	11.0	6 (≤50)	-	-
Iron	18600	19200	3 (≤50)	-	-
Lead	18.4	16.5	11 (≤50)	-	-

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Lithium	22.7	22.6	0 (≤50)	-	-
Magnesium	4410	4420	0 (≤50)	-	-
Manganese	287	287	0 (≤50)	-	-
Mercury	0.029	0.031	7 (≤50)	-	-
Molybdenum	0.75	0.82	9 (≤50)	-	-
Nickel	16.3	17.6	8 (≤50)	-	-
Phosphorus	462	451	2 (≤50)	-	-
Potassium	3130	3360	7 (≤50)	-	-
Selenium	0.18	0.20	11 (≤50)	-	-
Silver	0.073	0.049	39 (≤50)	-	-
Sodium	75.0	75.7	1 (≤50)	-	-
Strontium	16.2	15.8	2 (≤50)	-	-
Thallium	0.37	0.36	3 (≤50)	-	-
Tin	2.2	2.3	4 (≤50)	-	-
Titanium	1090	1140	4 (≤50)	-	-
Vanadium	40.6	43.7	7 (≤50)	-	-
Zinc	84.6	82.4	3 (≤50)	-	-
Zirconium	1.2	6.0U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE046

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Arsenic Cadmium Molybdenum Nickel Thallium Vanadium	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Arsenic Barium Chromium Cobalt Copper Lead Nickel Vanadium Zinc	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Molybdenum	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (Difference) (E)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Barium Lead Lithium Nickel Strontium Vanadium Zinc	J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)
DE046	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	Zirconium	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Metals - Laboratory Blank Data Qualification Summary - SDG DE046

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE046	DUP01-SIV-QC-122010	Antimony Tin	0.13U mg/Kg 2.2U mg/Kg	A	B
DE046	SED-003-SIV-SD-0.0-0.5	Antimony Tin	0.10U mg/Kg 2.3U mg/Kg	A	B
DE046	SED-005-SIV-SD-0.0-0.5	Antimony Tin	0.17U mg/Kg 2.3U mg/Kg	A	B
DE046	SED-007-SIV-SD-0.0-0.6	Antimony Tin	0.14U mg/Kg 2.4U mg/Kg	A	B
DE046	SED-008-SIV-SD-0.0-0.5	Antimony Tin	0.11U mg/Kg 2.9U mg/Kg	A	B
DE046	SED-034-SIV-SD-0.0-0.5	Tin	2.6U mg/Kg	A	B
DE046	SED-037-SIV-SD-0.0-0.5	Antimony Tin	0.25U mg/Kg 3.4U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11

SDG #: DE046 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CC

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	A	Sampling dates: 12/20/10
II.	ICP/MS Tune	A	
III.	Calibration	A	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	SW	
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)	A	
X.	Furnace Atomic Absorption QC	N	Not utilized
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	SW	(1,3)
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: sediment

1	DUP01-SIV-QC-122010	11		21		31	
2	SED-003-SIV-SD-0.0-0.5	12		22		32	
3	SED-005-SIV-SD-0.0-0.5	13		23		33	
4	SED-007-SIV-SD-0.0-0.6	14		24		34	
5	SED-008-SIV-SD-0.0-0.5	15		25		35	
6	SED-034-SIV-SD-0.0-0.5	16		26		36	
7	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5MSD	19		29		39	
10	SED-005-SIV-SD-0.0-0.5DUP	20		30		40	

Notes: _____

LDC #: 25550E4

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: CR
2nd Reviewer: L

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

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. ICP/MS Tune				
Were all isotopes in the tuning solution mass resolution within 0.1 amu?	✓			
Were %RSD of isotopes in the tuning solution ≤5%?	✓			
III. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% (80-120% for mercury) QC limits?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	✓			
V. ICP Interference Check Sample				
Were ICP interference check samples performed daily?	✓			
Were the AB solution percent recoveries (%R) with the 80-120% QC limits?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of +/- RL(+/-2X RL for soil) was used for samples that were ≤ 5X the RL, including when only one of the duplicate sample values were ≤ 5X the RL.	✓			
VII. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% QC limits for water samples and laboratory established QC limits for soils?	✓			

LDC #: 25550E4

VALIDATION FINDINGS CHECKLIST

Reviewer:
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
VIII. Furnace Atomic Absorption QC				
If MSA was performed, was the correlation coefficients > 0.995?			✓	
Do all applicable analysies have duplicate injections? (Level IV only)			✓	
For sample concentrations > RL, are applicable duplicate injection RSD values < 20%? (Level IV only)			✓	
Were analytical spike recoveries within the 85-115% QC limits?			✓	
IX. ICP Serial Dilution				
Was an ICP serial dilution analyzed if analyte concentrations were > 50X the MDL (ICP)/>100X the MDL(ICP/MS)?	✓			
Were all percent differences (%Ds) < 10%?		✓		
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.		✓		
X. Internal Standards (EPA SW 846 Method 6020/EPA 200.8)				
Were all the percent recoveries (%R) within the 30-120% (6020)/60-125% (200.8) of the intensity of the internal standard in the associated initial calibration?	✓			
If the %Rs were outside the criteria, was a reanalysis performed?	✓			
XI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
XII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-7		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC-8-10		Al, Sb, As, Ba, Be, B, Cd, Ca, ~~Cr, Co, Cu, Fe, Pb, Li, Mg,~~ Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Analysis Method
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, ~~Be, Cd, Cr, Co,~~ Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: ICP-MS: 2xdil

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Reason Code: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7			
Sb			0.56	0.56	0.13	0.10	0.17	0.14	0.11		0.25			
Be			0.059	0.06										
Cu	0.091			0.455										
P	1.732			8.66										
Sn	1.325			6.625	2.2	2.3	2.3	2.4	2.9	2.6	3.4			
Ti			0.45	0.225										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 3

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers (>5x)									
Mg			38.6	19.3										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 2, 4-7

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers (>5x)									
Mg			42.1	21.05										

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 #: 25550E4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: AR
2nd Reviewer: L

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?
(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
1	12/30/10	ICSA (05:00)	Mn	4 ug/L (≤0.78)	None	No Qual (all < 90% ICSA)
2	12/30/10	ICSA (06:25)	Mn	4 ug/L	↓	↓

Comments:

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: CR
2nd Reviewer:

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
	8/9	S	Sb	40	45		All	J/UJ/A (Q)
			As		135			Jdet/A
			Cd	129	126			
			Mo	133	135			
			Ni	130	141			
			Tl	129				
			V		132			

Comments:

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a duplicate sample analyzed for each matrix in this SDG?

Y N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤ 35% for soil samples? If no, see qualifications below. A control limit of ±R.L. (±2X R.L. for soil) was used for sample values that were <5X the R.L., including the case when only one of the duplicate sample values was <5X R.L.. If field blanks were used for laboratory duplicates, note in the Overall Assessment.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Duplicate ID	Matrix	Analyte	RPD (Limits)	Difference (Limits)	Associated Samples	Qualifications
		10	S	As	43		All	J/UJ/A (E)
				Ba	38			
				Be	45			
				Co	36			
				Cu	34			
				Pb	26			
				Mo		0.2846 (≤0.24)		
				Ni	46			
				V	36			
				Zn	37			

Comments:

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
ICP Serial Dilution

Page: 1 of 1
Reviewer: CR
2nd Reviewer:

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A If analyte concentrations were > 50X the MDL (ICP) ,or >100X the MDL (ICP/MS), was a serial dilution analyzed?
Y N N/A Were ICP serial dilution percent differences (%D) ≤10%?
Y N N/A Is there evidence of negative interference? If yes, professional judgement will be used to qualify the data.

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Diluted Sample ID	Matrix	Analyte	%D (Limits)	Associated Samples	Qualifications
		3	S	Ba	16	All	J (all detects) / A (A)
			S	Pb	18		
				Li	13		
				Mn	21		
				Sr	17		
				V	12		
				Zn	17		

Comments:

SDILICPMS.wpd

LDC#: 25550E4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer:
2nd Reviewer:

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

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/kg)		(≤50) RPD	Qualifications (Parent Only)
	1	3		
Aluminum	15100	15200	1	
Antimony	0.13	0.17	27	
Arsenic	5.3	5.6	6	
Barium	122	113	8	
Beryllium	0.65	0.65	0	
Boron	5.0	4.1	20	
Cadmium	0.27	0.22	20	
Calcium	2620	2560	2	
Chromium	21.4	25.3	17	
Cobalt	6.7	7.0	4	
Copper	10.4	11.0	6	
Iron	18600	19200	3	
Lead	18.4	16.5	11	
Lithium	22.7	22.6	0	
Magnesium	4410	4420	0	
Manganese	287	287	0	
Mercury	0.029	0.031	7	
Molybdenum	0.75	0.82	9	
Nickel	16.3	17.6	8	

LDC#: 25550E4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 22 of 22
Reviewer: CC
2nd Reviewer: A

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

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/kg) 1	Concentration (mg/kg) 3	(≤50) RPD	Qualifications (Parent Only)
Phosphorus	462	451	2	
Potassium	3130	3360	7	
Selenium	0.18	0.20	11	
Silver	0.073	0.049	39	
Sodium	75.0	75.7	1	
Strontium	16.2	15.8	2	
Thallium	0.37	0.36	3	
Tin	2.2	2.3	4	
Titanium	1090	1140	4	
Vanadium	40.6	43.7	7	
Zinc	84.6	82.4	3	
Zirconium	1.2	1.0 U	~~18~~ 200 ✓	

V:\FIELD DUPLICATES\FD_inorganic\25550E4.wpd

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: CS
2nd Reviewer:

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

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found x 100 / True

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (ug/L)	True (ug/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP (Initial calibration)	Mg	29627.24	30000	98.7	98.7	Y
ICV	ICP/MS (Initial calibration)	V	465.5	500	93.1	93.1	
ICV	CVAA (Initial calibration)	Hg	2.44	2.5	97.6	97.6	
CCV	ICP (Continuing calibration)	Se	483.41	500	96.7	96.7	
CCV	ICP/MS (Continuing calibration)	Cd	24.19	25	96.8	96.8	
CCV	CVAA (Continuing calibration)	Hg	0.97	1.0	97	97	
	GFAA (Initial calibration)						
	GFAA (Continuing calibation)						

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E9

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: CR
2nd Reviewer: [illegible]

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

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units) mg/kg	True / D / SDR (units) mg/kg	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Ca	192 mg/L	200 mg/L	96.0	96.0	Y
LCS	Laboratory control sample	Ca	998.9	1000	100	100	
8	Matrix spike	Li	(SSR-SR) 117.3985	121.1857	97	97	
10	Duplicate	Mn	287.1506	283.1987	1	1	
3	ICP serial dilution	Al	126514.81	137492.55	9	9	

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: [illegible]

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

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
Y N N/A Are all detection limits below the CRDL?

Detected analyte results for Mg were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation: $\frac{(100\ mL)(36.83355\ mg/L)}{0.809(1.03\ g)} = 4420\ mg/kg$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	3	Al	15200	15200	Y
		Sb	0.17	0.17	
		As	5.6	5.6	
		Ba	113	113	
		Be	0.65	0.65	
		B	4.1	4.1	
		Cd	0.22	0.22	
		Ca	2560	2560	
		Cr	25.3	25.3	
		Co	7.0	7.0	
		Cu	11.0	11.0	
		Fe	19200	19200	
		Pb	16.5	16.5	
		Li	22.6	22.6	
		Mg	4420	4420	
		Mn	287	287	
		Hg	0.031	0.031	
		Mo	0.82	0.81	
		Ni	17.6	17.6	
		P	451	451	
		K	3360	3360	
		Se	0.20	0.20	
		Ag	0.049	0.049	
		Na	75.7	75.7	
		Sr	15.8	15.8	
		Tl	0.36	0.36	
		Sn	2.3	2.3	
		Ti	1140	1140	
		V	43.7	43.7	
		Zn	82.4	82.4	
		Zr	1.0	1.0	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 20, 2010

LDC Report Date: June 8, 2011

Matrix: Sediment

Parameters: Herbicides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8151A for Herbicides.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

Initial calibration of compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

In the case where the laboratory used a calibration curve to evaluate the compounds, all coefficients of determination (r^2) were greater than or equal to 0.990.

Retention time windows were evaluated and considered technically acceptable.

III. Calibration Verification

Calibration verification was performed at the required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Flag	A or P
1/6/11	CCV	RTXCLP1	Dalapon 2,4-D Dinoseb	103.9 28.2 21.1	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5MS PBLK19365	J (all detects) UJ (all non-detects)	P
1/6/11	CCV	RTXCLP2	Dalapon 2,4-D	106.5 22.9	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5MS PBLK19365	J (all detects) UJ (all non-detects)	A

The percent differences (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

Sample	Compound	RPD	Flag	A or P
SED-007-SIV-SD-0.0-0.6	2,4-DB	48.63	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE046	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No herbicides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
2,4,5-TP	0.18	0.093U	200 (≤50)	J (all detects) UJ (all non-detects)	A

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No herbicide contaminants were found in the method blanks.

No field blanks were identified in this SDG.

V. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VI. Matrix Spike/(Matrix Spike) Duplicate

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5MS/MSD (SED-005-SIV-SD-0.0-0.5)	Dalapon	90 (12-86)	93 (12-86)	-	J (all detects)	A

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits were within QC limits with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	Flag	A or P
LCS (All samples in SDG DE046)	Dalapon	91 (24-89)	J (all detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

The sample results for detected compounds from the two columns were within 40% relative percent difference (RPD) with the following exceptions:

Sample	Compound	RPD	Flag	A or P
DUP01-SIV-QC-122010	2,4,5-TP	84.09	J (all detects)	A
SED-003-SIV-SD-0.0-0.5	MCPA	64.61	J (all detects)	A
SED-007-SIV-SD-0.0-0.6	2,4-DB	48.63	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE046	All compounds reported below the RL.	J (all detects)	A

X. System Performance

The system performance was acceptable.

XI. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XII. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No herbicides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
2,4,5-TP	0.18	0.21U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Herbicides - Data Qualification Summary - SDG DE046

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5	Dalapon 2,4-D Dinoseb	J (all detects) UJ (all non-detects)	P	Continuing calibration (%D) (C)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5	Dalapon 2,4-D	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE046	SED-005-SIV-SD-0.0-0.5	Dalapon	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Dalapon	J (all detects)	P	Laboratory control samples (%R)(L)
DE046	DUP01-SIV-QC-122010	2,4,5-TP	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE046	SED-003-SIV-SD-0.0-0.5	MCPA	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE046	SED-007-SIV-SD-0.0-0.6	2,4-DB	J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DE046	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	2,4,5-TP	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E5 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11
SDG #: DE046 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Herbicides (EPA SW 846 Method 8151A)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/10
II	Initial calibration	A	%RSD ≤ 20, r^2
III.	Calibration verification/ICV	SW	ICV/CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates SIV	SW	
VII.	Laboratory control samples	SW	LCS
VIII.	Target compound identification	A	
IX.	Compound Quantitation and CRQLs	SW	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 1,3
XIII.	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:
Sediment

1	DUP01-SIV-QC-122010	11	PBLK19365	21		31	
2	SED-003-SIV-SD-0.0-0.5	12		22		32	
3	SED-005-SIV-SD-0.0-0.5	13		23		33	
4	SED-007-SIV-SD-0.0-0.6	14		24		34	
5	SED-008-SIV-SD-0.0-0.5	15		25		35	
6	SED-034-SIV-SD-0.0-0.5	16		26		36	
7	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5MSD	19		29		39	
10		20		30		40	

Notes:

LDC #: 25505
SDG #: all water

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: EJ
2nd Reviewer: A

Method: ✓ GC ____ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation?	✓			
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
Were the RT windows properly established?	✓			
IV. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%.0 or percent recoveries 80-120%?	✓			
Were all the retention times within the acceptance windows?		✓		
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank analyzed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate spikes				
Were all surrogate %R within the QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Was a MS/MSD analyzed every 20 samples of each matrix?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓	✓		
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓	✓		
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 25550E5
SDG #: all cons

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer:

Validation Area	Yes	No	NA	Findings/Comments
X. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XI. Compound quantitation/CRQLs				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: ✓GC ___HPLC

8310	8330	8151	8141	8141(Con't)	8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	V. Fensulfothion	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	W. Bolstar	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	X. EPN	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	Y. Azinphos-methyl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	Z. Coumaphos	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	AA. Parathion	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2,4,6-Trinitrotoluene	G. Dicamba	G. Sulfotep	BB. Trichloronate	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	CC. Trichlorinate	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	DD. Trifluralin	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotolune	J. MCPA	J. Diazinon	EE. Def	
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton	FF. Prowl	
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	GG. Ethion	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	HH. Tetrachlorvinphos	
N. Naphthalene	N. 4-Nitrotoluene		N. Malathion	II. Sulprofos	
O. Phenanthrane	O.		O. Chlorpyrifos		
P. Pyrene	P.		P. Fenthion		
Q.	Q		Q. Parathion-ethyl		
R.			R. Trichloronate		
S.			S. Merphos		
			T. Stirofos		
			U. Tokuthion		

Notes: _____

LDC #: 25550E5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: FT

METHOD: ✓ GC __ HPLC

2nd Reviewer: ✓

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

What type of continuing calibration calculation was performed? __%D or __RPD

(Y) N N/A Were continuing calibration standards analyzed at the required frequencies?

Y (N) N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤15.0%?

Level IV Only

(Y) N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ ~~15.0~~ 20)	RT (limit)	Associated Samples	Qualifications
	1/6/11 18:40	CCV	RTX CLP1	H	103.9	( )	PBLK19365, 1→3, 8	J/UJ/P
				A	28.2	( )	↓	↓
				E	21.1	( )	↓	↓
			RTXCLP2	H	106.5	( )	↓	J/UJ/A
				A	22.9	( )	↓	↓
						( )		
						( )		
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						( )		
						( )		

LDC #: 25550E5
SDG #: -

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: [signature]
2nd Reviewer: [signature]

METHOD: GC Herbicides (EPA SW 846 Method 8151)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?

Y (N) N/A Were the MS/MSD percent recoveries (%R) and relative percent differences (RPD) within the QC limits?

Level IV/D Only

(Y) N N/A Were a MS/MSD analyzed every 20 samples for each matrix and whenever a sample extraction was performed?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		8/9	H	90 (12-86)	93 (12-86)	( )	3	J det/A
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 2555065

SDG #: -

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples

Reviewer: [signature]

2nd Reviewer: [signature]

METHOD: GC Herbicides (EPA SW 846 Method 8151)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a LCS required?

(Y) N N/A Were a laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) analyzed for each matrix in this SDG? ____________

Y (N) N/A Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

Level IV/D Only

(Y) N N/A Was a LCS analyzed every 20 samples for each matrix or whenever a sample extraction was performed?

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	~~LCSD %R (Limits)~~	~~RPD (Limits)~~	Associated Samples	Qualifications
		LCS	H	91 (24-89)	——— ( )	——— ( )	A ell	J det / P
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 25550ET

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ✓ **GC** __ **HPLC**

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Level IV/D Only

Y N N/A Were CRQLs adjusted for sample dilutions, dry weight factors, etc.?

Y N N/A Did the reported results for detected target compounds agree within 10.0% of the recalculated results?

#	Compound Name	Finding (%RPD Between 2 columns ≤40)	Associated Samples	Qualifications
	D	84.09	1	J/A det
	J	64.61	2	↓
	B	48.63	4	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25505S

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: FT
2nd reviewer:

METHOD: ✓ GC __ HPLC

Y N N/A Were field duplicate pairs identified in this SDG?
Y N N/A Were target compounds detected in the field duplicate pairs?

Compound	Concentration (ug/kg)		%RPD Limit ≤ 50	Qualification Parent only / All Samples
	1	3		
D	0.18	0.21 ~~0.0930~~	200	J/UJ/A

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 25SDE5
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: [illegible]

METHOD: GC ✓ HPLC ____

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

CF = A/C
average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

A = Area of compound,
C = Concentration of compound,
S = Standard deviation of the CF
X = Mean of the CFs

3

#	Standard ID	Calibration Date	Compound	Reported CF (20.020 ppb std)	Recalculated CF (20.020 ppb std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/6/11	Dicamba RTX CLP1	4.93×10^{-1}	4.93×10^{-1}	4.88×10^{-1}	4.88×10^{-1}	6.1	6.1
			2,4-DB	9.10×10^{-2}	9.10×10^{-2}	8.28×10^{-2}	8.28×10^{-2}	10.3	10.3
			RTX CLP2	5.25×10^{-1}	5.25×10^{-1}	5.20×10^{-1}	5.20×10^{-1}	7.2	7.2
2			↓	8.32×10^{-2}	8.32×10^{-2}	7.46×10^{-2}	7.80×10^{-2}	10.9	10.9
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25502ET
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: EJ
2nd Reviewer:

METHOD: GC ✓ HPLC ____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF - CF)/ave. CF
CF = A/C

Where: ave. CF = Initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported CF/Conc. CCV	Recalculated CF/Conc. CCV	Reported %D	Recalculated %D
1	ccv 18:40	1/6/11	Dicamba RTXcvP2	100	88.14	88.14	11.9	11.9
			2,4-DB	500	518.47	518.47	3.7	3.7
			RTXcvP2	100	95.06	95.06	4.9	4.9
2			↓	500	521.63	521.63	4.3	4.3
3	ccv 23:46	1/6/11	RTXcvP1	40.04	39.79	39.79	0.6	0.6
			↓	401.20	375.89	375.89	6.3	6.3
			RTXcvP2	40.04	38.24	38.24	4.5	4.5
4			↓	401.20	355.45	355.45	11.4	11.4

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550E5
SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
2,4-DCPAA	RTX CLP1	6.7	5.495797	~~35~~ 82	82	0

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

Sample ID:

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference

LDC #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC - SC)/SA Where SSC = Spiked sample concentration SC = Sample concentration
SA = Spike added
RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 8 + 9

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	---	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)	8.33	8.33	ND	9.29	9.79	112	112	118	118	5	5
Dinoseb (8151)	14.2	14.2	ND	1.70	2.27	12	12	16	16	29	29
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25552ET
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: RJ
2nd Reviewer: A

METHOD: ___ GC __HPLC

The percent recoveries (%R) and Relative Percent difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100* (SSC-SC)/SA
RPD = | LCS - LCSD | * 2/(LCS + LCSD)

Where: SSC = Spiked sample concentration
SA = Spike added
LCS = Laboratory control sample percent recovery
SC = Concentration
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)	8.33	NA	8.78	NA	105	105				
Dinoseb (8151)	14.2	↓	1.73	↓	12	12	NA			
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550ES
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound in the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. #1 Compound Name 2,4,5-TP

$$\text{Concentration} = \frac{4496 \quad (2000) \quad (\frac{100}{1667})}{7.14 \times 10^{-1} \quad (60) \quad (0.792) \quad (150295) \quad (1000)}$$

$$= 0.176 \text{ ug/kg}$$

#	Sample ID	Compound	Reported Concentrations ( )	Recalculated Results Concentrations ( )	Qualifications

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 20, 2010

LDC Report Date: June 3, 2011

Matrix: Sediment

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE046

Sample Identification

DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.6
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5DUP

Introduction

This data review covers 9 sediment samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 300.0 for Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, EPA Method 314.0 for Perchlorate, and EPA SW 846 Method 9045C for pH.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Initial Calibration

All criteria for the initial calibration of each method were met.

III. Calibration Verification

Calibration verification frequency and analysis criteria were met for each method when applicable.

IV. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks.

No field blanks were identified in this SDG.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	%R (Limits)	Flag	A or P
SED-005-SIV-SD-0.0-0.5MS (All samples in SDG DE046)	Fluoride	62 (80-120)	J (all detects) UJ (all non-detects)	A

VI. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Sample Result Verification

All sample result verifications were acceptable

All analytes reported below the RL were qualified as follows:

Sample	Analyte	Flag	A or P
All samples in SDG DE046	All analytes reported below the RL and above the MDL.	J (all detects)	A

IX. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

X. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
Fluoride	2.3 mg/Kg	2.6 mg/Kg	12 (≤50)	-	-
Hexavalent chromium	0.37 mg/Kg	0.60 mg/Kg	47 (≤50)	-	-
pH	5.94 units	6.64 units	11 (≤50)	-	-

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE046

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE046	DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.6 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)

Santa Susana Field Laboratory
Wet Chemistry - Laboratory Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE046

No Sample Data Qualified in this SDG

LDC #: 25550E6 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11
SDG #: DE046 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CS
2nd Reviewer: W

METHOD: (Analyte) ~~Nitrate-N;~~ Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 314.0), ~~Oxidation Reduction Potential (ASTM D1498)~~, pH (EPA SW846 Method 9045C)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/10
II	Initial calibration	A	
III.	Calibration verification	A	
IV	Blanks	A	
V	Matrix Spike/Matrix Spike Duplicates	SW	MS/D
VI.	Duplicates	A	Dup
VII.	Laboratory control samples	A	LCS
VIII.	Sample result verification	A	
IX.	Overall assessment of data	A	
X.	Field duplicates	SW	(1,3)
XI	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: sediment

1	DUP01-SIV-QC-122010	11		21		31	
2	SED-003-SIV-SD-0.0-0.5	12		22		32	
3	SED-005-SIV-SD-0.0-0.5	13		23		33	
4	SED-007-SIV-SD-0.0-0.6	14		24		34	
5	SED-008-SIV-SD-0.0-0.5	15		25		35	
6	SED-034-SIV-SD-0.0-0.5	16		26		36	
7	SED-037-SIV-SD-0.0-0.5	17		27		37	
8	SED-005-SIV-SD-0.0-0.5MS	18		28		38	
9	SED-005-SIV-SD-0.0-0.5DUP	19		29		39	
10		20		30		40	

Notes:

LDC #: 25550E6

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: CR
2nd Reviewer: W

Method: Inorganics (EPA Method See Cover)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	✓			
Were the proper number of standards used?	✓			
Were all initial calibration correlation coefficients > 0.995?	✓			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits?	✓			
Were titrant checks performed as required? (Level IV only)			✓	
Were balance checks performed as required? (Level IV only)			✓	
III. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.		✓		
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL(≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	✓			
V. Laboratory control samples				
Was an LCS anaylzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	✓			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?		✓		
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were detection limits < RL?	✓			
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target analytes were detected in the field duplicates.	✓			
X. Field blanks				
Field blanks were identified in this SDG.		✓		
Target analytes were detected in the field blanks.			✓	

LDC #: 25550E6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: [initials]
2nd reviewer: [initials]

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-7		(pH) TDS Cl (F) NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC (CR^{6+}) (ClO_4) ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
QC: 8		pH TDS Cl (F) NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC (CR^{6+}) (ClO_4) ___ ___
↓ 9		pH TDS Cl (F) NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC (CR^{6+} ClO_4) ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___
		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC CR^{6+} ClO_4 ___ ___

Comments:____

LDC #: 25550E6

VALIDATION FINDINGS WORKSHEET
Matrix Spike Analysis

Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method see cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125 (85-115% for Method 300.0)? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	Matrix Spike ID	Matrix	Analyte	%R	Associated Samples	Qualifications
		8	S	F	62 (80-120)	All	J/UJ/A (Q)

Comments:

LDC#_25550E6_

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: CR
2nd Reviewer: A

Inorganics, Method See Cover

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Analyte	Concentration (mg/Kg)		RPD (≤50)	
	1	3		
Fluoride	2.3	2.6	12	
Hexavalent Chromium	0.37	0.60	47	
pH (no units)	5.94	6.64	11	

V:\FIELD DUPLICATES\FD_inorganic\25550E6.wpd

LDC #: 25550E6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: QR
2nd Reviewer:

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of Clo4 was recalculated. Calibration date: 12/6/10

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found} \times 100}{\text{True}}$$

Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of analysis	Analyte	Standard	Conc. (ug/L)	Response	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	Clo4	s1	2	0.003	*1.000*	0.999	Y
		s2	4.00	0.01			
		s3	10.00	0.024			
		s4	25.00	0.063			
		s5	100.00	0.263			
Calibration verification	F	CCV	1.5	1.5133	101	101	
Calibration verification	Cr6+	CCV	200	203.1540	102	102	
Calibration verification	Clo4	CCV	100	100.7629	101	101	

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25505E6

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer: [illegible]

METHOD: Inorganics, Method See cover

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units) mg/kg	True / D (units) mg/kg	Recalculated %R / RPD	Reported %R / RPD	Acceptable (Y/N)
LCS	Laboratory control sample	F	9.6	10	96	-	Y
8	Matrix spike sample	Cla	(SSR-SR) 503 ug/kg	499 ug/kg	101	101	
9	Duplicate sample	Cl	0.49	0.61	22	22	✓

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550B6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: [illegible]

METHOD: Inorganics, Method See cover

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Have results been reported and calculated correctly?
Y N N/A Are results within the calibrated range of the instruments?
Y N N/A Are all detection limits below the CRQL?

Compound (analyte) results for F reported with a positive detect were recalculated and verified using the following equation:

Concentration =

$y = 0.3609x - 0.0204$

Recalculation:

$$\frac{\left(\frac{0.045 + 0.0204}{0.3609}\right)(50\,mL)}{(0.792)(5.025)} = 2.3\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	F	2.3	2.3	Y
		Cl	0.37	0.37	↓
		pH	5.94	5.94	↓

Note: _____

SAMPLE DELIVERY GROUP

DE050

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3050B	6010B	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3050B	6020	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3060A	7199	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3550B	8081A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3550B	8082	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3550B	8151A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3550B	8270C	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	3550B	8270C SIM	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	Gen Prep	9045M	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	METHOD	300.0	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	METHOD	314.0	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172316	N	METHOD	7471A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3050B	6010B	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3050B	6020	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3060A	7199	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3550B	8081A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3550B	8082	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3550B	8151A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3550B	8270C	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	3550B	8270C SIM	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	METHOD	300.0	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	METHOD	314.0	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172317	MS	METHOD	7471A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	3050B	6010B	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	3050B	6020	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	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
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	3550B	8082	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	3550B	8151A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	3550B	8270C	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	3550B	8270C SIM	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172318	MSD	METHOD	7471A	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	3050B	6010B	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	3050B	6020	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	3060A	7199	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	Gen Prep	9045M	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	METHOD	300.0	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	METHOD	314.0	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5DUP	6172319	DUP	METHOD	7471A	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3050B	6010B	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3050B	6020	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3060A	7199	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3550B	8081A	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3550B	8082	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3550B	8151A	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3550B	8270C	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	3550B	8270C SIM	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	Gen Prep	9045M	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	METHOD	300.0	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	METHOD	314.0	III
21-Dec-2010	DUP02-SIV-QC-122110	6172315	FD	METHOD	7471A	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3050B	6010B	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	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
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3060A	7199	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3550B	8081A	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3550B	8082	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3550B	8151A	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3550B	8270C	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	3550B	8270C SIM	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	Gen Prep	9045M	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	METHOD	300.0	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	METHOD	314.0	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172323	N	METHOD	7471A	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3050B	6010B	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3050B	6020	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3060A	7199	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3550B	8081A	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3550B	8082	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3550B	8151A	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3550B	8270C	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	3550B	8270C SIM	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	Gen Prep	9045M	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	METHOD	300.0	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	METHOD	314.0	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172321	N	METHOD	7471A	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3050B	6010B	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3050B	6020	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3060A	7199	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	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
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3550B	8082	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3550B	8151A	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3550B	8270C	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	3550B	8270C SIM	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	Gen Prep	9045M	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	METHOD	300.0	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	METHOD	314.0	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172320	N	METHOD	7471A	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3050B	6010B	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3050B	6020	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3060A	7199	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3550B	8081A	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3550B	8082	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3550B	8151A	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3550B	8270C	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	3550B	8270C SIM	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	Gen Prep	9045M	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	METHOD	300.0	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	N	METHOD	314.0	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172322	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: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	U	0.95	MDL	1.2	PQL	mg/Kg	UJ	FD

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	1.1	J	0.96	MDL	1.2	PQL	mg/Kg	J	Z, FD

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2	J	1.0	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.68	J	1.01	MDL	5.66	PQL	mg/Kg	J	Z
SODIUM	70.3	J	42.2	MDL	113	PQL	mg/Kg	J	Z
TIN	2.02	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.82	J	0.951	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	4.65	J	1.01	MDL	5.70	PQL	mg/Kg	J	Z
SODIUM	74.9	J	42.5	MDL	114	PQL	mg/Kg	J	Z
TIN	2.11	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.42	J	0.957	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.34	J	1.14	MDL	6.38	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory:** LL

EDD Filename: PrepDE050_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.3	J	47.6	MDL	128	PQL	mg/Kg	J	Z
TIN	2.15	J	1.28	MDL	12.8	PQL	mg/Kg	U	B
Zirconium	2.32	J	1.07	MDL	6.38	PQL	mg/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
SODIUM	93.5	J	47.2	MDL	126	PQL	mg/Kg	J	Z
TIN	3.30	J	1.26	MDL	12.6	PQL	mg/Kg	U	B
Zirconium	5.96	J	1.06	MDL	6.32	PQL	mg/Kg	J	Z

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.94	J	1.02	MDL	5.72	PQL	mg/Kg	J	Z
SODIUM	61.9	J	42.7	MDL	114	PQL	mg/Kg	J	Z
TIN	2.03	J	1.14	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	2.81	J	0.961	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.97	J	1.16	MDL	6.50	PQL	mg/Kg	J	Z
SODIUM	59.6	J	48.5	MDL	130	PQL	mg/Kg	J	Z
TIN	2.30	J	1.30	MDL	13.0	PQL	mg/Kg	U	B
Zirconium	2.19	J	1.09	MDL	6.50	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0457	MDL	0.457	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory:** LL

EDD Filename: PrepDE050_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.545		0.0572	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0806	J	0.0686	MDL	0.229	PQL	mg/Kg	J	Z, Q
ARSENIC	6.94		0.0686	MDL	0.457	PQL	mg/Kg	J	Q
CADMIUM	0.239		0.0412	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	22.0		0.137	MDL	0.457	PQL	mg/Kg	J	Q
COBALT	6.50		0.0229	MDL	0.114	PQL	mg/Kg	J	A
COPPER	9.16		0.0755	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	10.3		0.0119	MDL	0.229	PQL	mg/Kg	J	Q
NICKEL	13.1		0.114	MDL	0.457	PQL	mg/Kg	J	Q, A
SILVER	0.0362	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	45.8		0.0252	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.153	J	0.0469	MDL	0.469	PQL	mg/Kg	J	Z

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.457		0.0586	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.111	J	0.0704	MDL	0.235	PQL	mg/Kg	J	Z, Q
ARSENIC	6.18		0.0704	MDL	0.469	PQL	mg/Kg	J	Q
CADMIUM	0.233		0.0422	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	20.4		0.141	MDL	0.469	PQL	mg/Kg	J	Q
COBALT	5.89		0.0235	MDL	0.117	PQL	mg/Kg	J	A
COPPER	8.69		0.0774	MDL	0.469	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
LEAD	10.0		0.0122	MDL	0.235	PQL	mg/Kg	J	Q
NICKEL	12.1		0.117	MDL	0.469	PQL	mg/Kg	J	Q, A
SILVER	0.0286	J	0.0141	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0258	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.191		0.0464	MDL	0.129	PQL	mg/Kg	J	Q

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.188	J	0.0516	MDL	0.516	PQL	mg/Kg	J	Z

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.513		0.0645	MDL	0.129	PQL	mg/Kg	J	Q

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0859	J	0.0774	MDL	0.258	PQL	mg/Kg	J	Z, Q
ARSENIC	11.6		0.0774	MDL	0.516	PQL	mg/Kg	J	Q
CHROMIUM	18.7		0.155	MDL	0.516	PQL	mg/Kg	J	Q
COBALT	5.55		0.0258	MDL	0.129	PQL	mg/Kg	J	A
COPPER	9.12		0.0851	MDL	0.516	PQL	mg/Kg	J	Q
LEAD	13.2		0.0134	MDL	0.258	PQL	mg/Kg	J	Q
NICKEL	12.7		0.129	MDL	0.516	PQL	mg/Kg	J	Q, A
SILVER	0.0473	J	0.0155	MDL	0.129	PQL	mg/Kg	J	Z
VANADIUM	36.1		0.0284	MDL	0.129	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 11:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.490	J	0.0496	MDL	0.496	PQL	mg/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
MOLYBDENUM	0.783		0.0620	MDL	0.124	PQL	mg/Kg	J	Q

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.203	J	0.0744	MDL	0.248	PQL	mg/Kg	J	Z, Q
ARSENIC	15.7		0.0744	MDL	0.496	PQL	mg/Kg	J	Q
CADMIUM	0.285		0.0446	MDL	0.124	PQL	mg/Kg	J	Q
CHROMIUM	41.7		0.149	MDL	0.496	PQL	mg/Kg	J	Q
COBALT	13.1		0.0248	MDL	0.124	PQL	mg/Kg	J	A
COPPER	22.4		0.0818	MDL	0.496	PQL	mg/Kg	J	Q
LEAD	18.6		0.0129	MDL	0.248	PQL	mg/Kg	J	Q
NICKEL	28.0		0.124	MDL	0.496	PQL	mg/Kg	J	Q, A
VANADIUM	79.5		0.0273	MDL	0.124	PQL	mg/Kg	J	Q

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.161	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.560		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.0951	J	0.0673	MDL	0.224	PQL	mg/Kg	J	Z, Q
ARSENIC	5.11		0.0673	MDL	0.449	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-038-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 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
CADMIUM	0.248		0.0404	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	24.0		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	6.49		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	9.33		0.0740	MDL	0.449	PQL	mg/Kg	J	Q
LEAD	12.0		0.0117	MDL	0.224	PQL	mg/Kg	J	Q
NICKEL	13.7		0.112	MDL	0.449	PQL	mg/Kg	J	Q, A
SILVER	0.0475	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0247	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SED-039-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 10:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0515	MDL	0.515	PQL	mg/Kg	J	Z

Sample ID: SED-039-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 10:55:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.364		0.0644	MDL	0.129	PQL	mg/Kg	J	Q

Sample ID: SED-039-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.258	PQL	mg/Kg	UJ	Q
ARSENIC	6.51		0.0773	MDL	0.515	PQL	mg/Kg	J	Q
CADMIUM	0.125	J	0.0464	MDL	0.129	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.3		0.155	MDL	0.515	PQL	mg/Kg	J	Q
COBALT	6.80		0.0258	MDL	0.129	PQL	mg/Kg	J	A
COPPER	7.54		0.0850	MDL	0.515	PQL	mg/Kg	J	Q
LEAD	10.3		0.0134	MDL	0.258	PQL	mg/Kg	J	Q
NICKEL	11.6		0.129	MDL	0.515	PQL	mg/Kg	J	Q, A
SILVER	0.0238	J	0.0155	MDL	0.129	PQL	mg/Kg	J	Z
VANADIUM	37.0		0.0283	MDL	0.129	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.25	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.43	J	0.25	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.27	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0053	J	0.0036	MDL	0.127	PQL	mg/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.0109	J	0.0034	MDL	0.118	PQL	mg/Kg	J	Z

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	0.0059	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDE	0.27	U	0.27	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDT	0.49	U	0.49	MDL	0.49	PQL	ug/Kg	UJ	S
ALDRIN	0.078	U	0.078	MDL	0.20	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	L, S
BETA-BHC	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	UJ	S
Chlordane	0.95	U	0.95	MDL	4.0	PQL	ug/Kg	UJ	S
DELTA-BHC	0.043	U	0.043	MDL	0.20	PQL	ug/Kg	UJ	S
DIELDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.052	U	0.052	MDL	0.20	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.23	U	0.23	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	L, S
HEPTACHLOR	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.40	U	0.40	MDL	2.0	PQL	ug/Kg	UJ	S
MIREX	0.15	U	0.15	MDL	0.40	PQL	ug/Kg	UJ	S
TOXAPHENE	2.6	U	2.6	MDL	7.8	PQL	ug/Kg	UJ	S

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
ALPHA-BHC	0.041	U	0.041	MDL	0.20	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.041	U	0.041	MDL	0.20	PQL	ug/Kg	UJ	L

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.044	U	0.044	MDL	0.22	PQL	ug/Kg	UJ	L
DELTA-BHC	0.11	J	0.047	MDL	0.22	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.044	U	0.044	MDL	0.22	PQL	ug/Kg	UJ	L
HEPTACHLOR	0.11	J	0.078	MDL	0.22	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory:** LL

EDD Filename: PrepDE050_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
ALPHA-BHC	0.043	U	0.043	MDL	0.21	PQL	ug/Kg	UJ	L
DELTA-BHC	0.26		0.046	MDL	0.21	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.043	U	0.043	MDL	0.21	PQL	ug/Kg	UJ	L

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
ALPHA-BHC	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	L

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.13	J	0.088	MDL	0.22	PQL	ug/Kg	J	Z
ALPHA-BHC	0.045	U	0.045	MDL	0.22	PQL	ug/Kg	UJ	L
gamma-BHC (Lindane)	0.16	J	0.045	MDL	0.22	PQL	ug/Kg	J	Z, L

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

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *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 1260	0.68	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z, L, S
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.9	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z, S, L

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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 1260	0.65	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z, Q, L, S
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.3	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z, S, L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *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	2.4		0.43	MDL	2.2	PQL	ug/Kg	J	S, L
AROCLOR 1260	0.71	J	0.43	MDL	2.2	PQL	ug/Kg	J	Z, L, S
Aroclor 5432	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L
Aroclor 5442	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L
Aroclor 5460	1.6	J	1.3	MDL	4.3	PQL	ug/Kg	J	Z, S, L

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.77	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z, L, S
Aroclor 5432	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L
Aroclor 5442	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L
Aroclor 5460	1.3	U	1.3	MDL	4.2	PQL	ug/Kg	UJ	L

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
AROCLOR 1260	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, L
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	2.8	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, L

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4.2		0.44	MDL	2.3	PQL	ug/Kg	J	S, L
AROCLOR 1260	1.3	J	0.44	MDL	2.3	PQL	ug/Kg	J	Z, L, S
Aroclor 5432	1.3	U	1.3	MDL	4.4	PQL	ug/Kg	UJ	L
Aroclor 5442	1.3	U	1.3	MDL	4.4	PQL	ug/Kg	UJ	L
Aroclor 5460	2.1	J	1.3	MDL	4.4	PQL	ug/Kg	J	Z, S, L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.18	J	0.089	MDL	0.20	PQL	ug/Kg	J	Z, FD
DICAMBA	1.2	J	0.48	MDL	1.4	PQL	ug/Kg	J	Z, FD
DICHLOROPROP	0.96	J	0.95	MDL	2.0	PQL	ug/Kg	J	Z, FD
DINOSEB	0.95	U	0.95	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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-TP (Silvex)	0.090	U	0.090	MDL	0.20	PQL	ug/Kg	UJ	FD
DICAMBA	0.48	U	0.48	MDL	1.4	PQL	ug/Kg	UJ	FD
DICHLOROPROP	0.96	U	0.96	MDL	2.0	PQL	ug/Kg	UJ	FD
DINOSEB	0.96	U	0.96	MDL	2.9	PQL	ug/Kg	R	L

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.0	U	1.0	MDL	3.1	PQL	ug/Kg	R	L

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
2,4-D	3.0	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.1	U	1.1	MDL	3.2	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	87	J	20	MDL	400	PQL	ug/Kg	J	Z, FD

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
BENZIDINE	1400	U	1400	MDL	4000	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	45	J	20	MDL	400	PQL	ug/Kg	J	Z, FD

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *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	67	J	22	MDL	430	PQL	ug/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	48	J	21	MDL	420	PQL	ug/Kg	J	Z
Butylbenzylphthalate	56	J	21	MDL	210	PQL	ug/Kg	J	Z

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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	30	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	33	J	22	MDL	440	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory:** LL

EDD Filename: PrepDE050_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP02-SIV-QC-122110 *Collected:* 12/21/2010 9:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.47	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SED-002-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
ACENAPHTHYLENE	0.40	U	0.40	MDL	2.0	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	1.3	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.80	U	0.80	MDL	2.0	PQL	ug/Kg	UJ	Q
CHRYSENE	0.90	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	2.6		0.80	MDL	2.0	PQL	ug/Kg	J	Q
PHENANTHRENE	0.93	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.8	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.47	J	0.43	MDL	2.2	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.8	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
CHRYSENE	1.9	J	0.43	MDL	2.2	PQL	ug/Kg	J	Z
FLUORANTHENE	1.9	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
ACENAPHTHYLENE	0.46	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory:** LL

EDD Filename: PrepDE050_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SED-036-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 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
BENZO(K)FLUORANTHENE	0.96	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
FLUORANTHENE	2.0	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	1.9	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
PYRENE	1.5	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SED-038-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 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
ANTHRACENE	0.39	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	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	15	J	6.9	MDL	21	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SED-039-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 10:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.1	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.91	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z
Butylbenzylphthalate	17	J	8.0	MDL	24	PQL	ug/Kg	J	Z
FLUORANTHENE	2.0	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z
FLUORENE	2.0	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z
NAPHTHALENE	1.7	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z
PYRENE	1.4	J	0.88	MDL	2.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: PrepDE050_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE050

Method Blank Outlier Report

Lab Reporting Batch ID: DE050 Laboratory: LL

EDD Filename: DE050_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35708EB221714	12/30/2010 5:14:00 PM	ALUMINUM	16.5 mg/Kg	DUP02-SIV-QC-122110
		CALCIUM	13.9 mg/Kg	SED-002-SIV-SD-0.0-0.5
		IRON	6.65 mg/Kg	SED-015-SIV-SD-0.0-0.5
		PHOSPHORUS	1.41 mg/Kg	SED-036-SIV-SD-0.0-0.5
		STRONTIUM	0.0782 mg/Kg	SED-038-SIV-SD-0.0-0.5
		TIN	1.13 mg/Kg	SED-039-SIV-SD-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
DUP02-SIV-QC-122110(RES)	TIN	2.02 mg/Kg	2.02U mg/Kg
SED-002-SIV-SD-0.0-0.5(RES)	TIN	2.11 mg/Kg	2.11U mg/Kg
SED-015-SIV-SD-0.0-0.5(RES)	TIN	2.15 mg/Kg	2.15U mg/Kg
SED-036-SIV-SD-0.0-0.5(RES)	TIN	3.30 mg/Kg	3.30U mg/Kg
SED-038-SIV-SD-0.0-0.5(RES)	TIN	2.03 mg/Kg	2.03U mg/Kg
SED-039-SIV-SD-0.0-0.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P35726BB220955A	1/3/2011 9:55:00 AM	COPPER	0.203 mg/Kg	DUP02-SIV-QC-122110
		LEAD	0.0114 mg/Kg	SED-002-SIV-SD-0.0-0.5
		NICKEL	0.121 mg/Kg	SED-015-SIV-SD-0.0-0.5
		ZINC	0.601 mg/Kg	SED-036-SIV-SD-0.0-0.5
				SED-038-SIV-SD-0.0-0.5
				SED-039-SIV-SD-0.0-0.5

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P04043AB241152A	1/7/2011 11:52:00 AM	MCPP	500 ug/Kg	DUP02-SIV-QC-122110
				SED-002-SIV-SD-0.0-0.5
				SED-015-SIV-SD-0.0-0.5
				SED-036-SIV-SD-0.0-0.5
				SED-038-SIV-SD-0.0-0.5
				SED-039-SIV-SD-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-002-SIV-SD-0.0-0.5MSD (SED-002-SIV-SD-0.0-0.5)	AROCLOR 1260	-	152	39.00-149.00	-	AROCLOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (SED-002-SIV-SD-0.0-0.5)	4,4'-DDE 4,4'-DDT	171 -	202 182	18.00-161.00 10.00-176.00	- -	4,4'-DDE 4,4'-DDT	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-002-SIV-SD-0.0-0.5MSD (SED-002-SIV-SD-0.0-0.5)	DALAPON	-	103	12.00-86.00	57 (50.00)	DALAPON	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	ARSENIC CADMIUM CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	151 142 150 126 164 143 185 226	199 135 166 132 179 143 203 210	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 CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J(all detects) Zn No Qual, >4x
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	ANTIMONY	37	45	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	MOLYBDENUM	139	140	75.00-125.00	-	MOLYBDENUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_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
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	BARIUM	306	253	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
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	ALUMINUM CALCIUM TITANIUM	726 153 186	535 145 192	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No Qual, >4x
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	IRON MAGNESIUM	-881 -20	-1536 -81	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	MANGANESE	49	40	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
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (SED-002-SIV-SD-0.0-0.5)	BENZIDINE	25	15	35.00-141.00	53 (30.00)	BENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_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*
SED-002-SIV-SD-0.0-0.5MS SED-002-SIV-SD-0.0-0.5MSD (SED-002-SIV-SD-0.0-0.5)	Butylbenzylphthalate Di-n-octylphthalate NAPHTHALENE	171 246 104	- 242 -	73.00-140.00 40.00-192.00 61.00-102.00	- - -	Butylbenzylphthalate Di-n-octylphthalate NAPHTHALENE	J(all detects)
SED-002-SIV-SD-0.0-0.5MS (SED-002-SIV-SD-0.0-0.5)	BENZO(G,H,I)PERYLENE	30	-	33.00-141.00	-	BENZO(G,H,I)PERYLENE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-002-SIV-SD-0.0-0.5DUP (DUP02-SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	SILVER	27	20.00	No Qual OK by difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-002-SIV-SD-0.0-0.5DUP (DUP02-SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	HEXAVALENT CHROMIUM	73	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_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
P03648AQ241745A (DUP02 -SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	AROCLOR 1260	167	-	65.00-137.00	-	AROCLOR 1242, 1248, 1254, 1260	J (all detects)
P03648AY241804A (DUP02 -SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	Aroclor 5442	-	68	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03640AQ240822A (DUP02 -SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	ALPHA-BHC gamma-BHC (Lindane)	33 42	- -	38.00-130.00 46.00-127.00	- -	ALPHA-BHC gamma-BHC (Lindane)	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10043AQ241220A (DUP02 -SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	DINOSEB	8	-	10.00-136.00	-	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
P35726BQ220958A (DUP02 -SIV-QC-122110 SED -002-SIV-SD-0.0-0.5 SED -015-SIV-SD-0.0-0.5 SED -036-SIV-SD-0.0-0.5 SED -038-SIV-SD-0.0-0.5 SED -039-SIV-SD-0.0-0.5)	ANTIMONY	63	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_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*
P3LJLCSQ262221 (DUP02-SIV-QC-122110 SED-002-SIV-SD-0.0-0.5 SED-015-SIV-SD-0.0-0.5 SED-036-SIV-SD-0.0-0.5 SED-038-SIV-SD-0.0-0.5 SED-039-SIV-SD-0.0-0.5)	PENTACHLOROPHENOL	111	-	35.00-106.00	-	PENTACHLOROPHENOL	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE050 Laboratory: LL

EDD Filename: DE050_v1 eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP02-SIV-QC-122110	TETRACHLORO-M-XYLENE	46	50.00-130.00	All Target Analytes	J (all detects) UJ (all non-detects)
SED-036-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	149	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP02-SIV-QC-122110	DECACHLOROBIPHENYL	130	45.00-120.00	All Target Analytes	J(all detects)
SED-002-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)
SED-015-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SED-036-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	141	45.00-120.00	All Target Analytes	J(all detects)
SED-039-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	205 172	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
MOISTURE	16.4	15.9	3		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
FLUORIDE	1.1	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
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
ALUMINUM	14600	13700	6	50.00	
BORON	4.65	4.68	1	50.00	
CALCIUM	2940	2800	5	50.00	
IRON	22100	20400	8	50.00	
LITHIUM	29.2	26.9	8	50.00	
MAGNESIUM	6260	5760	8	50.00	
MANGANESE	332	300	10	50.00	
PHOSPHORUS	501	487	3	50.00	No Qualifiers Applied
POTASSIUM	3940	3540	11	50.00	
SODIUM	74.9	70.3	6	50.00	
STRONTIUM	13.6	13.3	2	50.00	
TIN	2.11	2.02	4	50.00	
TITANIUM	1360	1260	8	50.00	
Zirconium	4.42	3.82	15	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
ANTIMONY	0.111	0.0806	32	50.00	
ARSENIC	6.18	6.94	12	50.00	
BARIUM	104	112	7	50.00	
BERYLLIUM	0.574	0.565	2	50.00	
CADMIUM	0.233	0.239	3	50.00	
CHROMIUM	20.4	22.0	8	50.00	
COBALT	5.89	6.50	10	50.00	
COPPER	8.69	9.16	5	50.00	
LEAD	10.0	10.3	3	50.00	No Qualifiers Applied
MOLYBDENUM	0.457	0.545	18	50.00	
NICKEL	12.1	13.1	8	50.00	
SELENIUM	0.153	0.131	15	50.00	
SILVER	0.0286	0.0362	23	50.00	
THALLIUM	0.296	0.282	5	50.00	
VANADIUM	42.4	45.8	8	50.00	
ZINC	70.9	82.1	15	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
HEXAVALENT CHROMIUM	0.25	0.31	21	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
AROCLOR 1260	0.65	0.68	5	50.00	No Qualifiers Applied
Aroclor 5460	1.3	1.9	37	50.00	

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
2,4,5-TP (Silvex)	0.20 U	0.18	200	50.00	J(all detects) UJ(all non-detects)
DICAMBA	1.4 U	1.2	200	50.00	
DICHLOROPROP	2.0 U	0.96	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
BENZO(B)FLUORANTHENE	1.3	1.5	14	50.00	No Qualifiers Applied
CHRYSENE	0.90	1.1	20	50.00	
FLUORANTHENE	1.1	1.6	37	50.00	
NAPHTHALENE	2.6	2.4	8	50.00	
PHENANTHRENE	0.93	1.1	17	50.00	
PYRENE	1.3	1.1	17	50.00	
ACENAPHTHYLENE	2.0 U	0.47	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
BIS(2-ETHYLHEXYL)PHTHALATE	45	87	64	50.00	J(all detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
PH	6.51	6.52	0	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
Oxidation Reduction Potential	536	522	3		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-002-SIV-SD-0.0-0.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SED-015-SIV-SD-0.0-0.5	FLUORIDE	J	1.2	1.3	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	BORON	J	4.68	5.66	PQL	mg/Kg	J (all detects)
	SODIUM	J	70.3	113	PQL	mg/Kg	
	TIN	J	2.02	11.3	PQL	mg/Kg	
	Zirconium	J	3.82	5.66	PQL	mg/Kg	
SED-002-SIV-SD-0.0-0.5	BORON	J	4.65	5.70	PQL	mg/Kg	J (all detects)
	SODIUM	J	74.9	114	PQL	mg/Kg	
	TIN	J	2.11	11.4	PQL	mg/Kg	
	Zirconium	J	4.42	5.70	PQL	mg/Kg	
SED-015-SIV-SD-0.0-0.5	BORON	J	5.34	6.38	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.3	128	PQL	mg/Kg	
	TIN	J	2.15	12.8	PQL	mg/Kg	
	Zirconium	J	2.32	6.38	PQL	mg/Kg	
SED-036-SIV-SD-0.0-0.5	SODIUM	J	93.5	126	PQL	mg/Kg	J (all detects)
	TIN	J	3.30	12.6	PQL	mg/Kg	
	Zirconium	J	5.96	6.32	PQL	mg/Kg	
SED-038-SIV-SD-0.0-0.5	BORON	J	4.94	5.72	PQL	mg/Kg	J (all detects)
	SODIUM	J	61.9	114	PQL	mg/Kg	
	TIN	J	2.03	11.4	PQL	mg/Kg	
	Zirconium	J	2.81	5.72	PQL	mg/Kg	
SED-039-SIV-SD-0.0-0.5	BORON	J	3.97	6.50	PQL	mg/Kg	J (all detects)
	SODIUM	J	59.6	130	PQL	mg/Kg	
	TIN	J	2.30	13.0	PQL	mg/Kg	
	Zirconium	J	2.19	6.50	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	ANTIMONY	J	0.0806	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.457	PQL	mg/Kg	
	SILVER	J	0.0362	0.114	PQL	mg/Kg	
SED-002-SIV-SD-0.0-0.5	ANTIMONY	J	0.111	0.235	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.153	0.469	PQL	mg/Kg	
	SILVER	J	0.0286	0.117	PQL	mg/Kg	
SED-015-SIV-SD-0.0-0.5	ANTIMONY	J	0.0859	0.258	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.188	0.516	PQL	mg/Kg	
	SILVER	J	0.0473	0.129	PQL	mg/Kg	
SED-036-SIV-SD-0.0-0.5	ANTIMONY	J	0.203	0.248	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.490	0.496	PQL	mg/Kg	
SED-038-SIV-SD-0.0-0.5	ANTIMONY	J	0.0951	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.449	PQL	mg/Kg	
	SILVER	J	0.0475	0.112	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE050 | Laboratory: LL

EDD Filename: DE050_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-039-SIV-SD-0.0-0.5	CADMIUM	J	0.125	0.129	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.136	0.515	PQL	mg/Kg	
	SILVER	J	0.0238	0.129	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SED-002-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.25	1.2	PQL	mg/Kg	J (all detects)
SED-036-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.3	PQL	mg/Kg	J (all detects)
SED-039-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.3	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-015-SIV-SD-0.0-0.5	MERCURY	J	0.0053	0.127	PQL	mg/Kg	J (all detects)
SED-036-SIV-SD-0.0-0.5	MERCURY	J	0.0109	0.118	PQL	mg/Kg	J (all detects)
SED-038-SIV-SD-0.0-0.5	MERCURY	J	0.0059	0.114	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-015-SIV-SD-0.0-0.5	DELTA-BHC	J	0.11	0.22	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.11	0.22	PQL	ug/Kg	
SED-039-SIV-SD-0.0-0.5	ALDRIN	J	0.13	0.22	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.16	0.22	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	AROCLOR 1260	J	0.68	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	3.9	PQL	ug/Kg	
SED-002-SIV-SD-0.0-0.5	AROCLOR 1260	J	0.65	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.9	PQL	ug/Kg	
SED-015-SIV-SD-0.0-0.5	AROCLOR 1260	J	0.71	2.2	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	4.3	PQL	ug/Kg	
SED-036-SIV-SD-0.0-0.5	AROCLOR 1260	J	0.77	2.1	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-038-SIV-SD-0.0-0.5	AROCLOR 1260	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.8	3.8	PQL	ug/Kg	
SED-039-SIV-SD-0.0-0.5	AROCLOR 1260	J	1.3	2.3	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.1	4.4	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	2,4,5-TP (Silvex)	J	0.18	0.20	PQL	ug/Kg	J (all detects)
	DICAMBA	J	1.2	1.4	PQL	ug/Kg	
	DICHLOROPROP	J	0.96	2.0	PQL	ug/Kg	
SED-038-SIV-SD-0.0-0.5	2,4-D	J	3.0	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	BIS(2-ETHYLHEXYL)PHTHALATE	J	87	400	PQL	ug/Kg	J (all detects)
SED-002-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	400	PQL	ug/Kg	J (all detects)
SED-015-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	67	430	PQL	ug/Kg	J (all detects)
SED-036-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	420	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	56	210	PQL	ug/Kg	
SED-038-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	380	PQL	ug/Kg	J (all detects)
SED-039-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	440	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	ACENAPHTHYLENE	J	0.47	2.0	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.1	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	2.0	PQL	ug/Kg	
	PYRENE	J	1.1	2.0	PQL	ug/Kg	
SED-002-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.90	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	0.93	2.0	PQL	ug/Kg	
	PYRENE	J	1.3	2.0	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE050 **Laboratory: LL**

EDD Filename: DE050_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SED-015-SIV-SD-0.0-0.5	1-METHYLNAPHTHALENE	J	1.8	2.2	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.47	2.2	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.8	2.2	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	2.2	PQL	ug/Kg	
	CHRYSENE	J	1.9	2.2	PQL	ug/Kg	
	FLUORANTHENE	J	1.9	2.2	PQL	ug/Kg	
	PYRENE	J	1.5	2.2	PQL	ug/Kg	
SED-036-SIV-SD-0.0-0.5	ACENAPHTHYLENE	J	0.46	2.1	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.96	2.1	PQL	ug/Kg	
	CHRYSENE	J	1.4	2.1	PQL	ug/Kg	
	FLUORANTHENE	J	2.0	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	1.9	2.1	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	2.1	PQL	ug/Kg	
	PYRENE	J	1.5	2.1	PQL	ug/Kg	
SED-038-SIV-SD-0.0-0.5	ANTHRACENE	J	0.39	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	15	21	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
SED-039-SIV-SD-0.0-0.5	BENZO(A)PYRENE	J	1.1	2.2	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.91	2.2	PQL	ug/Kg	
	Butylbenzylphthalate	J	17	24	PQL	ug/Kg	
	FLUORANTHENE	J	2.0	2.2	PQL	ug/Kg	
	FLUORENE	J	2.0	2.2	PQL	ug/Kg	
	NAPHTHALENE	J	1.7	2.2	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	2.2	PQL	ug/Kg	
	PYRENE	J	1.4	2.2	PQL	ug/Kg	

LDC #: 25550F4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-6		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC 7-9		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr

Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		~~Sb, As~~, Ba, ~~Be, Cd, Cr~~, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25550F4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/4/11
SDG #: DE050 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AL
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	—	
III.	Calibration	—	
IV.	Blanks	SW	CCB hits but no data qualified
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ca, Fe, Mg, Mn, P, Ti, Zn, Ba) 4x
VII.	Duplicate Sample Analysis	N	DUP (As <5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Co: 11%, Ni: 16% : J/UJ/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	DUP02-SIV-QC-122110	11		21		31	
2	SED-002-SIV-SD-0.0-0.5	12		22		32	
3	SED-015-SIV-SD-0.0-0.5	13		23		33	
4	SED-036-SIV-SD-0.0-0.5	14		24		34	
5	SED-038-SIV-SD-0.0-0.5	15		25		35	
6	SED-039-SIV-SD-0.0-0.5	16		26		36	
7	SED-002-SIV-SD-0.0-0.5MS	17		27		37	
8	SED-002-SIV-SD-0.0-0.5MSD	18		28		38	
9	SED-002-SIV-SD-0.0-0.5DUP	19		29		39	
10		20		30		40	

Notes:

SAMPLE DELIVERY GROUP

DE051

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3050B	6010B	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3050B	6020	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3060A	7199	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8081A	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8082	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8151A	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8270C	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	3550B	8270C SIM	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	Gen Prep	9045M	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	300.0	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	314.0	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	6850	III
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173164	N	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3050B	6010B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3060A	7199	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8081A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8082	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8151A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8270C	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	3550B	8270C SIM	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	Gen Prep	9045M	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	METHOD	300.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	METHOD	314.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173167	N	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3060A	7199	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8081A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8082	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8151A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8270C	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	3550B	8270C SIM	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	METHOD	300.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	METHOD	314.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173168	MS	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3050B	6010B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8081A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8082	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8151A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8270C	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	3550B	8270C SIM	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173169	MSD	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	3050B	6010B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	3050B	6020	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	3060A	7199	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	Gen Prep	9045M	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	METHOD	300.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	METHOD	314.0	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	6173170	DUP	METHOD	7471A	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5DUP	P173167D271322B	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
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	P173167R271336B	MS	METHOD	300.0	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3050B	6010B	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3050B	6020	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3060A	7199	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8081A	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8082	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8151A	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8270C	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	3550B	8270C SIM	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	Gen Prep	9045M	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	METHOD	300.0	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	METHOD	314.0	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173160	FD	METHOD	7471A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3050B	6010B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3050B	6020	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3060A	7199	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3546	1625C	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8015B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8015M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8081A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8082	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8151A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8270C	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	3550B	8270C SIM	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	5035	8015M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	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
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	5035	8260B SIM	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	8330	8330A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	Gen Prep	9045M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	300.0	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	314.0	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	7471A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	8015B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	8015M	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	8315A	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173166	N	METHOD	9012B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5DUP	P173166D271131A	DUP	METHOD	314.0	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5MS	P173166R271154A	MS	METHOD	314.0	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3050B	6010B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3050B	6020	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3060A	7199	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3546	1625C	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8015B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8081A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8082	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8151A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8270C	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	3550B	8270C SIM	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	5035	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	5035	8260B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	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
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	8330	8330A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	Gen Prep	9045M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	300.0	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	314.0	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	7471A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	8015B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	8315A	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173171	N	METHOD	9012B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MSD	P173171M322217A	MSD	METHOD	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MSD	P173171M322347A	MSD	METHOD	8015B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MS	P173171R322201A	MS	METHOD	8015M	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5MS	P173171R322332A	MS	METHOD	8015B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3050B	6010B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3050B	6020	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3060A	7199	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3546	1625C	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8015B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8015M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8081A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8082	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8151A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8270C	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	3550B	8270C SIM	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	5035	8015M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	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
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	5035	8260B SIM	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	8330	8330A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	Gen Prep	9045M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	300.0	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	314.0	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	7471A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	8015B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	8015M	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	8315A	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173165	N	METHOD	9012B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5DUP	P173165D271905A	DUP	METHOD	9012B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5MS	P173165R211839A	MS	5035	8260B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5MS	P173165R271906A	MS	METHOD	9012B	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3050B	6010B	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3050B	6020	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3060A	7199	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8081A	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8082	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8151A	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8270C	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	3550B	8270C SIM	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	Gen Prep	9045M	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	METHOD	300.0	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	METHOD	314.0	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173172	N	METHOD	7471A	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3050B	6020	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3060A	7199	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8081A	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8082	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8151A	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8270C	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	3550B	8270C SIM	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	Gen Prep	9045M	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	METHOD	300.0	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	METHOD	314.0	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173173	N	METHOD	7471A	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3050B	6010B	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3050B	6020	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3060A	7199	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8081A	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8082	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8151A	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8270C	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	3550B	8270C SIM	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	Gen Prep	9045M	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	METHOD	300.0	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	METHOD	314.0	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173163	N	METHOD	7471A	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3050B	6010B	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3050B	6020	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	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
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3550B	8082	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3550B	8270C	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	3550B	8270C SIM	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	5035	8260B	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	5035	8260B SIM	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	Gen Prep	9045M	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	METHOD	300.0	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	METHOD	314.0	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173174	N	METHOD	7471A	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3050B	6010B	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3050B	6020	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3060A	7199	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3550B	8082	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3550B	8270C	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	3550B	8270C SIM	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	Gen Prep	9045M	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	METHOD	300.0	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	METHOD	314.0	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173176	N	METHOD	7471A	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3005A	6010B	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3020A	6020	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8081A	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8082	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8270C	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	3510C	8270C SIM	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	Gen Prep	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	EB08-SA5B-122210	6173161	EB	Gen Prep	314.0	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	Gen Prep	7199	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	METHOD	7470A	III
22-Dec-2010	EB08-SA5B-122210	6173161	EB	METHOD	8151A	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3050B	6010B	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3050B	6020	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3060A	7199	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3550B	8082	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3550B	8270C	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	3550B	8270C SIM	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	5035	8260B	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	5035	8260B SIM	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	Gen Prep	9045M	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	300.0	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	314.0	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	6850	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173175	N	METHOD	7471A	III
22-Dec-2010	TB-122210	6173178	TB	5030B	8015M	III
22-Dec-2010	TB-122210	6173178	TB	5030B	8260B	III
22-Dec-2010	TB-122210	6173178	TB	5030B	8260B SIM	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3005A	6010B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3020A	6020	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8015B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8015M	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8081A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8270C	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3510C	8270C SIM	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	3520C	1625C	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	5030B	8015M	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	5030B	8260B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	5030B	8260B SIM	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	8330	8330A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	300.0	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	314.0	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	7199	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	8015B	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	Gen Prep	8015M	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	7470A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	8151A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	8315A	III
22-Dec-2010	FB06-SA5B-122210	6173162	FB	METHOD	9012B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3050B	6010B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3050B	6020	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3060A	7199	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3546	1625C	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8015B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8015M	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8082	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8270C	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	3550B	8270C SIM	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	5035	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	5035	8260B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	5035	8260B SIM	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	8330	8330A	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	Gen Prep	9045M	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	300.0	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	314.0	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	7471A	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	8015B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	8015M	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	8315A	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173177	N	METHOD	9012B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0DUP	P173177D291230B	DUP	Gen Prep	9045M	III

III = EPA Level 3 Data Review *N = 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: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		1.0	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	1.8		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-157-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 10:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 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	3.1		0.89	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 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	1.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS **Method:** 6010B **Matrix:** AQ

Sample ID: EB08-SA5B-122210 *Collected:* 12/22/2010 11:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	0.0640	J	0.0522	MDL	0.200	PQL	mg/L	J	Z

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	1.00	MDL	5.62	PQL	mg/Kg	J	Z
CALCIUM	3070		6.90	MDL	22.5	PQL	mg/Kg	J	E, FD
IRON	18600		5.30	MDL	22.5	PQL	mg/Kg	J	E
MAGNESIUM	4260		2.86	MDL	11.2	PQL	mg/Kg	J	E
PHOSPHORUS	361		0.630	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2800		20.2	MDL	56.2	PQL	mg/Kg	J	Q
SODIUM	92.3	J	42.0	MDL	112	PQL	mg/Kg	J	Z
STRONTIUM	18.7		0.0697	MDL	0.562	PQL	mg/Kg	J	E
TIN	2.22	J	1.12	MDL	11.2	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.945	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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
CALCIUM	4260		7.27	MDL	23.7	PQL	mg/Kg	J	E
IRON	15400		5.58	MDL	23.7	PQL	mg/Kg	J	E
MAGNESIUM	3720		3.01	MDL	11.9	PQL	mg/Kg	J	E
PHOSPHORUS	378		0.664	MDL	11.9	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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	2890		21.3	MDL	59.3	PQL	mg/Kg	J	Q
SODIUM	56.7	J	44.2	MDL	119	PQL	mg/Kg	J	Z
STRONTIUM	13.2		0.0735	MDL	0.593	PQL	mg/Kg	J	E
TIN	2.40	J	1.19	MDL	11.9	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.85	J	1.07	MDL	6.02	PQL	mg/Kg	J	Z
CALCIUM	4630		7.39	MDL	24.1	PQL	mg/Kg	J	E
IRON	20000		5.68	MDL	24.1	PQL	mg/Kg	J	E
MAGNESIUM	4210		3.06	MDL	12.0	PQL	mg/Kg	J	E
PHOSPHORUS	362		0.675	MDL	12.0	PQL	mg/Kg	J	Q
POTASSIUM	2720		21.7	MDL	60.2	PQL	mg/Kg	J	Q
SODIUM	104	J	44.9	MDL	120	PQL	mg/Kg	J	Z
STRONTIUM	23.2		0.0747	MDL	0.602	PQL	mg/Kg	J	E
TIN	2.26	J	1.20	MDL	12.0	PQL	mg/Kg	J	Z
Zirconium	2.14	J	1.01	MDL	6.02	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.13	J	1.01	MDL	5.69	PQL	mg/Kg	J	Z
CALCIUM	5190		6.98	MDL	22.8	PQL	mg/Kg	J	E, FD
IRON	21000		5.36	MDL	22.8	PQL	mg/Kg	J	E
MAGNESIUM	4940		2.89	MDL	11.4	PQL	mg/Kg	J	E
PHOSPHORUS	423		0.638	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3050		20.5	MDL	56.9	PQL	mg/Kg	J	Q
SODIUM	95.5	J	42.5	MDL	114	PQL	mg/Kg	J	Z
STRONTIUM	25.6		0.0706	MDL	0.569	PQL	mg/Kg	J	E
TIN	2.26	J	1.14	MDL	11.4	PQL	mg/Kg	J	Z
Zirconium	3.01	J	0.956	MDL	5.69	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-101-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 9:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.41	J	1.01	MDL	5.66	PQL	mg/Kg	J	Z
CALCIUM	3030		6.94	MDL	22.7	PQL	mg/Kg	J	E
IRON	25400		5.33	MDL	22.7	PQL	mg/Kg	J	E
MAGNESIUM	4660		2.88	MDL	11.3	PQL	mg/Kg	J	E
PHOSPHORUS	256		0.634	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	3240		20.4	MDL	56.6	PQL	mg/Kg	J	Q
STRONTIUM	28.5		0.0702	MDL	0.566	PQL	mg/Kg	J	E
TIN	2.50	J	1.13	MDL	11.3	PQL	mg/Kg	J	Z
Zirconium	2.40	J	0.951	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 9:36:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.70	J	0.967	MDL	5.43	PQL	mg/Kg	J	Z
CALCIUM	4940		6.66	MDL	21.7	PQL	mg/Kg	J	E
IRON	21000		5.12	MDL	21.7	PQL	mg/Kg	J	E
MAGNESIUM	4600		2.76	MDL	10.9	PQL	mg/Kg	J	E
PHOSPHORUS	344		0.608	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3290		19.6	MDL	54.3	PQL	mg/Kg	J	Q
STRONTIUM	24.5		0.0674	MDL	0.543	PQL	mg/Kg	J	E
TIN	2.27	J	1.09	MDL	10.9	PQL	mg/Kg	J	Z
Zirconium	2.04	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 9:22:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	27500		7.64	MDL	24.9	PQL	mg/Kg	J	E
IRON	22700		5.87	MDL	24.9	PQL	mg/Kg	J	E
MAGNESIUM	6260		3.17	MDL	12.5	PQL	mg/Kg	J	E
PHOSPHORUS	534		0.698	MDL	12.5	PQL	mg/Kg	J	Q
POTASSIUM	4650		22.4	MDL	62.3	PQL	mg/Kg	J	Q
STRONTIUM	58.9		0.0773	MDL	0.623	PQL	mg/Kg	J	E
TIN	2.21	J	1.25	MDL	12.5	PQL	mg/Kg	J	Z
Zirconium	1.94	J	1.05	MDL	6.23	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	71800		37.7	MDL	123	PQL	mg/Kg	J	E

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
IRON	28500		5.79	MDL	24.6	PQL	mg/Kg	J	E
MAGNESIUM	7560		3.12	MDL	12.3	PQL	mg/Kg	J	E
PHOSPHORUS	640		0.688	MDL	12.3	PQL	mg/Kg	J	Q
POTASSIUM	5740		22.1	MDL	61.4	PQL	mg/Kg	J	Q
STRONTIUM	114		0.0762	MDL	0.614	PQL	mg/Kg	J	E
TIN	2.05	J	1.23	MDL	12.3	PQL	mg/Kg	J	Z
Zirconium	2.97	J	1.03	MDL	6.14	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
BORON	5.79	J	1.04	MDL	5.84	PQL	mg/Kg	J	Z
CALCIUM	22300		7.16	MDL	23.4	PQL	mg/Kg	J	E
IRON	12400		5.50	MDL	23.4	PQL	mg/Kg	J	E
MAGNESIUM	3230		2.97	MDL	11.7	PQL	mg/Kg	J	E
PHOSPHORUS	391		0.654	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	2470		21.0	MDL	58.4	PQL	mg/Kg	J	Q
SODIUM	72.7	J	43.6	MDL	117	PQL	mg/Kg	J	Z
STRONTIUM	46.2		0.0724	MDL	0.584	PQL	mg/Kg	J	E
TIN	1.61	J	1.17	MDL	11.7	PQL	mg/Kg	J	Z
Zirconium	1.94	J	0.981	MDL	5.84	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2780		6.68	MDL	21.8	PQL	mg/Kg	J	E
IRON	23900		5.13	MDL	21.8	PQL	mg/Kg	J	E
MAGNESIUM	4170		2.77	MDL	10.9	PQL	mg/Kg	J	E
PHOSPHORUS	246		0.610	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2180		19.6	MDL	54.5	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-145-SA5B-SB-4.0-5.0 ***Collected:*** 12/22/2010 2:54:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	25.8		0.0676	MDL	0.545	PQL	mg/Kg	J	E
TIN	1.77	J	1.09	MDL	10.9	PQL	mg/Kg	J	Z
Zirconium	2.17	J	0.915	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0 ***Collected:*** 12/22/2010 10:48:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.70	J	0.930	MDL	5.23	PQL	mg/Kg	J	Z
CALCIUM	2180		6.41	MDL	20.9	PQL	mg/Kg	J	E
IRON	19000		4.92	MDL	20.9	PQL	mg/Kg	J	E
MAGNESIUM	4010		2.66	MDL	10.5	PQL	mg/Kg	J	E
PHOSPHORUS	391		0.585	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2800		18.8	MDL	52.3	PQL	mg/Kg	J	Q
STRONTIUM	14.9		0.0648	MDL	0.523	PQL	mg/Kg	J	E
TIN	2.24	J	1.05	MDL	10.5	PQL	mg/Kg	J	Z
Zirconium	1.84	J	0.878	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-9.0-10.0 ***Collected:*** 12/22/2010 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
BORON	3.90	J	0.982	MDL	5.52	PQL	mg/Kg	J	Z
CALCIUM	2050		6.77	MDL	22.1	PQL	mg/Kg	J	E
IRON	17900		5.20	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	3380		2.80	MDL	11.0	PQL	mg/Kg	J	E
PHOSPHORUS	246		0.618	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2390		19.9	MDL	55.2	PQL	mg/Kg	J	Q
SODIUM	96.7	J	41.2	MDL	110	PQL	mg/Kg	J	Z
STRONTIUM	19.5		0.0684	MDL	0.552	PQL	mg/Kg	J	E
TIN	2.36	J	1.10	MDL	11.0	PQL	mg/Kg	J	Z
Zirconium	2.05	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5B-SB-4.0-5.0 ***Collected:*** 12/22/2010 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	3.92	J	0.987	MDL	5.54	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 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
CALCIUM	1970		6.80	MDL	22.2	PQL	mg/Kg	J	E
IRON	18700		5.22	MDL	22.2	PQL	mg/Kg	J	E
MAGNESIUM	3790		2.82	MDL	11.1	PQL	mg/Kg	J	E
PHOSPHORUS	397		0.621	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3350		20.0	MDL	55.4	PQL	mg/Kg	J	Q
STRONTIUM	15.6		0.0687	MDL	0.554	PQL	mg/Kg	J	E
TIN	2.35	J	1.11	MDL	11.1	PQL	mg/Kg	J	Z
Zirconium	2.09	J	0.931	MDL	5.54	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 6020 **Matrix:** AQ

Sample ID: EB08-SA5B-122210 *Collected:* 12/22/2010 11:45:00 *Analysis Type:* REA5 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000055	J	0.000052	MDL	0.0010	PQL	mg/L	U	B

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

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0463	MDL	0.463	PQL	mg/Kg	U	B

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.1		0.125	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.2		0.0735	MDL	0.446	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	39.4		0.0245	MDL	0.111	PQL	mg/Kg	J	E

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 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	0.0960	J	0.0695	MDL	0.232	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.90		0.0695	MDL	0.463	PQL	mg/Kg	J	Q, E, E
CHROMIUM	16.6		0.139	MDL	0.463	PQL	mg/Kg	J	A
COBALT	5.52		0.0232	MDL	0.116	PQL	mg/Kg	J	A
SILVER	0.0302	J	0.0139	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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
SELENIUM	0.137	J	0.0465	MDL	0.465	PQL	mg/Kg	U	B

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 10:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.5		0.126	MDL	0.465	PQL	mg/Kg	J	A

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 10:10:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	5.42		0.0775	MDL	0.470	PQL	mg/Kg	J	E
VANADIUM	23.9		0.0258	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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	0.0698	U	0.0698	MDL	0.233	PQL	mg/Kg	UJ	Q
ARSENIC	9.04		0.0698	MDL	0.465	PQL	mg/Kg	J	Q, E, E
CHROMIUM	11.8		0.140	MDL	0.465	PQL	mg/Kg	J	A
COBALT	4.17		0.0233	MDL	0.116	PQL	mg/Kg	J	A
SILVER	0.0232	J	0.0140	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0501	MDL	0.501	PQL	mg/Kg	U	B

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.8		0.135	MDL	0.501	PQL	mg/Kg	J	A

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	7.76		0.0795	MDL	0.482	PQL	mg/Kg	J	E
VANADIUM	35.8		0.0265	MDL	0.120	PQL	mg/Kg	J	E

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0752	U	0.0752	MDL	0.251	PQL	mg/Kg	UJ	Q
ARSENIC	5.86		0.0752	MDL	0.501	PQL	mg/Kg	J	Q, E, E
CHROMIUM	19.8		0.150	MDL	0.501	PQL	mg/Kg	J	A
COBALT	6.01		0.0251	MDL	0.125	PQL	mg/Kg	J	A
SILVER	0.0342	J	0.0150	MDL	0.125	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0455	MDL	0.455	PQL	mg/Kg	U	B

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.123	MDL	0.455	PQL	mg/Kg	J	A

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.5		0.0767	MDL	0.465	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	48.4		0.0256	MDL	0.116	PQL	mg/Kg	J	E

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.120	J	0.0683	MDL	0.228	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.21		0.0683	MDL	0.455	PQL	mg/Kg	J	Q, E, E
CHROMIUM	14.9		0.137	MDL	0.455	PQL	mg/Kg	J	A
COBALT	5.29		0.0228	MDL	0.114	PQL	mg/Kg	J	A
SILVER	0.0305	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0453	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:00:00 *Analysis Type:* REA4 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	196		0.306	MDL	1.13	PQL	mg/Kg	J	A

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.2		0.0770	MDL	0.466	PQL	mg/Kg	J	E
VANADIUM	46.6		0.0257	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	0.0982	J	0.0680	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.58		0.0680	MDL	0.453	PQL	mg/Kg	J	Q, E, E
CHROMIUM	25.8		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	13.3		0.0227	MDL	0.113	PQL	mg/Kg	J	A
SILVER	0.0532	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.195	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.120	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.5		0.0738	MDL	0.448	PQL	mg/Kg	J	E
VANADIUM	50.9		0.0246	MDL	0.112	PQL	mg/Kg	J	E

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *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	0.0665	MDL	0.222	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.55		0.0665	MDL	0.443	PQL	mg/Kg	J	Q, E, E
CHROMIUM	30.9		0.133	MDL	0.443	PQL	mg/Kg	J	A
COBALT	7.79		0.0222	MDL	0.111	PQL	mg/Kg	J	A
SILVER	0.0333	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.188	J	0.0494	MDL	0.494	PQL	mg/Kg	U	B

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.133	MDL	0.494	PQL	mg/Kg	J	A

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.6		0.0784	MDL	0.475	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	56.9		0.0261	MDL	0.119	PQL	mg/Kg	J	E

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0895	J	0.0741	MDL	0.247	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.93		0.0741	MDL	0.494	PQL	mg/Kg	J	Q, E, E
CHROMIUM	23.6		0.148	MDL	0.494	PQL	mg/Kg	J	A
COBALT	7.12		0.0247	MDL	0.123	PQL	mg/Kg	J	A
SILVER	0.0289	J	0.0148	MDL	0.123	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.296	J	0.0496	MDL	0.496	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.134	MDL	0.496	PQL	mg/Kg	J	A

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.6		0.0819	MDL	0.496	PQL	mg/Kg	J	E
VANADIUM	60.6		0.0273	MDL	0.124	PQL	mg/Kg	J	E

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	0.189	J	0.0744	MDL	0.248	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.75		0.0744	MDL	0.496	PQL	mg/Kg	J	Q, E, E
CHROMIUM	31.5		0.149	MDL	0.496	PQL	mg/Kg	J	A
COBALT	8.52		0.0248	MDL	0.124	PQL	mg/Kg	J	A
SILVER	0.0309	J	0.0149	MDL	0.124	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
SELENIUM	0.265	J	0.0458	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:10:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.124	MDL	0.458	PQL	mg/Kg	J	A

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:10:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.9		0.0771	MDL	0.467	PQL	mg/Kg	J	E
VANADIUM	54.1		0.0257	MDL	0.117	PQL	mg/Kg	J	E

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	0.128	J	0.0687	MDL	0.229	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.18		0.0687	MDL	0.458	PQL	mg/Kg	J	Q, E, E
CHROMIUM	28.6		0.137	MDL	0.458	PQL	mg/Kg	J	A
COBALT	8.64		0.0229	MDL	0.114	PQL	mg/Kg	J	A
SILVER	0.0300	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.163	J	0.0453	MDL	0.453	PQL	mg/Kg	U	B

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.122	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.0		0.0748	MDL	0.453	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-145-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 2:54:00 **Analysis Type:** REA9 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	52.1		0.0249	MDL	0.113	PQL	mg/Kg	J	E

Sample ID: SL-145-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 2:54:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0680	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.98		0.0680	MDL	0.453	PQL	mg/Kg	J	Q, E, E
CHROMIUM	24.0		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	5.32		0.0227	MDL	0.113	PQL	mg/Kg	J	A
SILVER	0.0394	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 10:48:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0426	MDL	0.426	PQL	mg/Kg	U	B

Sample ID: SL-157-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 10:48:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.8		0.115	MDL	0.426	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 10:48:00 **Analysis Type:** REA9 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.36		0.0697	MDL	0.422	PQL	mg/Kg	J	E
VANADIUM	41.5		0.0232	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-157-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 10:48:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0639	U	0.0639	MDL	0.213	PQL	mg/Kg	UJ	Q
ARSENIC	4.63		0.0639	MDL	0.426	PQL	mg/Kg	J	Q, E, E
CHROMIUM	17.8		0.128	MDL	0.426	PQL	mg/Kg	J	A
COBALT	5.81		0.0213	MDL	0.107	PQL	mg/Kg	J	A
SILVER	0.0237	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 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
SELENIUM	0.104	J	0.0429	MDL	0.429	PQL	mg/Kg	U	B

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 10:52:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.116	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 10:52:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.5		0.0729	MDL	0.442	PQL	mg/Kg	J	E
VANADIUM	43.5		0.0243	MDL	0.110	PQL	mg/Kg	J	E

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 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	0.0651	J	0.0643	MDL	0.214	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.63		0.0643	MDL	0.429	PQL	mg/Kg	J	Q, E, E
CHROMIUM	20.2		0.129	MDL	0.429	PQL	mg/Kg	J	A
COBALT	7.28		0.0214	MDL	0.107	PQL	mg/Kg	J	A
SILVER	0.0339	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 12:09:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0439	MDL	0.439	PQL	mg/Kg	U	B

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 12:09:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.7		0.119	MDL	0.439	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 12:09:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.1		0.0724	MDL	0.439	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 Laboratory: LL

EDD Filename: PrepDE051_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 12:09:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.5		0.0241	MDL	0.110	PQL	mg/Kg	J	E

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 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	0.0659	U	0.0659	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	5.34		0.0659	MDL	0.439	PQL	mg/Kg	J	Q, E, E
CHROMIUM	18.5		0.132	MDL	0.439	PQL	mg/Kg	J	A
COBALT	7.13		0.0220	MDL	0.110	PQL	mg/Kg	J	A
SILVER	0.0396	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 7199 **Matrix:** AQ

Sample ID: EB08-SA5B-122210 *Collected:* 12/22/2010 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	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

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

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.25	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 Laboratory: LL

EDD Filename: PrepDE051_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-100-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 9:02:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 9:36:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 9:22:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 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	0.33	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 **Collected:** 12/22/2010 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	0.44	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 2:54:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0 **Collected:** 12/22/2010 10:48:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-9.0-10.0 **Collected:** 12/22/2010 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	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 Laboratory: LL

EDD Filename: PrepDE051_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 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	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 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	0.0128	J	0.0032	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0093	J	0.0035	MDL	0.122	PQL	mg/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0108	J	0.0035	MDL	0.120	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *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	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0763	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 10:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0042	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 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	0.0048	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

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

Sample ID: FB06-SA5B-122210 *Collected:* 12/22/2010 1:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.82		0.522	MDL	1.04	PQL	ng/L	U	B

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

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.61	J	0.50	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.72	J	0.50	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.80	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *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)	0.94	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-101-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 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
4,4'-DDD	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDT	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ALDRIN	0.078	U	0.078	MDL	0.20	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
BETA-BHC	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	UJ	S
Chlordane	0.94	U	0.94	MDL	4.0	PQL	ug/Kg	UJ	S
DELTA-BHC	0.042	U	0.042	MDL	0.20	PQL	ug/Kg	UJ	S
DIELDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.052	U	0.052	MDL	0.20	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.20	J	0.078	MDL	0.40	PQL	ug/Kg	J	Z, S
ENDRIN	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.071	U	0.071	MDL	0.20	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.040	U	0.040	MDL	0.20	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.40	U	0.40	MDL	2.0	PQL	ug/Kg	UJ	S
MIREX	0.078	U	0.078	MDL	0.40	PQL	ug/Kg	UJ	S
TOXAPHENE	2.6	U	2.6	MDL	7.8	PQL	ug/Kg	UJ	S

Sample ID: SL-117-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 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
4,4'-DDT	0.10	J	0.082	MDL	0.42	PQL	ug/Kg	J	Z
MIREX	0.13	J	0.082	MDL	0.42	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** AQ

Sample ID: EB08-SA5B-122210 *Collected:* 12/22/2010 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
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

Sample ID: FB06-SA5B-122210 *Collected:* 12/22/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	0.10	U	0.10	MDL	0.50	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.50	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.50	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 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
AROCLOR 1254	6.4		0.38	MDL	2.0	PQL	ug/Kg	J	S, FD
AROCLOR 1260	2.5		0.38	MDL	2.0	PQL	ug/Kg	J	S, FD
Aroclor 5460	2.1	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z, S, FD

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2.0	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z
AROCLOR 1260	1.2	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5460	1.4	J	1.3	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *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	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.41	MDL	2.1	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.2	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
AROCLOR 1254	0.79	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCLOR 1260	1.0	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	2.5	J	1.2	MDL	3.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 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
2,4,5-T	0.095	U	0.095	MDL	0.20	PQL	ug/Kg	UJ	FD
2,4-DB	1.7	J	0.72	MDL	2.0	PQL	ug/Kg	UJ	B, FD
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPP	430		87	MDL	290	PQL	ug/Kg	J	FD

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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
DINOSEB	0.98	U	0.98	MDL	2.9	PQL	ug/Kg	R	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.97	J	0.78	MDL	2.1	PQL	ug/Kg	U	B
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.12	J	0.095	MDL	0.20	PQL	ug/Kg	J	Z, FD
2,4-DB	1.0	U	1.0	MDL	2.0	PQL	ug/Kg	UJ	FD
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPP	87	U	87	MDL	290	PQL	ug/Kg	UJ	FD

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L
MCPA	180	J	90	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.70	MDL	1.9	PQL	ug/Kg	U	B
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *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	0.87	J	0.77	MDL	2.1	PQL	ug/Kg	U	B
DINOSEB	1.0	U	1.0	MDL	3.0	PQL	ug/Kg	R	L

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
DICHLOROPROP	2.0	J	0.99	MDL	2.1	PQL	ug/Kg	J	Z
DINOSEB	0.99	U	0.99	MDL	3.0	PQL	ug/Kg	R	L
MCPA	240	J	94	MDL	310	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
DINOSEB	0.94	U	0.94	MDL	2.8	PQL	ug/Kg	R	L
MCPA	110	J	90	MDL	290	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 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	23	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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	130	J	20	MDL	410	PQL	ug/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	58	J	20	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	87	J	21	MDL	420	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	22	J	21	MDL	410	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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	23	J	20	MDL	390	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB08-SA5B-122210 *Collected:* 12/22/2010 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	0.25	J	0.053	MDL	1.1	PQL	ug/L	UJ	E, B
Butylbenzylphthalate	0.067	J	0.053	MDL	1.1	PQL	ug/L	U	B
Diethylphthalate	0.098	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	0.40	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.083	J	0.053	MDL	1.1	PQL	ug/L	U	B
NAPHTHALENE	0.034	J	0.011	MDL	0.053	PQL	ug/L	J	Z
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.053	PQL	ug/L	UJ	L

Sample ID: FB06-SA5B-122210 *Collected:* 12/22/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.017	J	0.010	MDL	0.052	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.022	J	0.010	MDL	0.052	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.22	J	0.052	MDL	1.0	PQL	ug/L	UJ	E, B
Butylbenzylphthalate	0.065	J	0.052	MDL	1.0	PQL	ug/L	U	B
Dimethylphthalate	0.052	U	0.052	MDL	1.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.069	J	0.052	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.087	J	0.052	MDL	1.0	PQL	ug/L	U	B
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.052	PQL	ug/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 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
ANTHRACENE	0.39	U	0.39	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	1.6	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	2.0		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	3.7		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
CHRYSENE	2.2		0.39	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	FD
FLUORANTHENE	2.6		0.77	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	0.97	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	FD
PYRENE	2.7		0.77	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 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(B)FLUORANTHENE	1.2	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.41	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.81	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-024-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 10:01:00 *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(A)ANTHRACENE	1.3	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.85	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.42	MDL	2.1	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	7.5	MDL	23	PQL	ug/Kg	J	Z
PYRENE	2.0	J	0.84	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-100-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.81	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	7.0		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	6.1		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	9.2		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	3.0		0.77	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	3.6		0.77	MDL	1.9	PQL	ug/Kg	J	FD
CHRYSENE	6.8		0.39	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	0.80	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	10	J	7.0	MDL	21	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	12		0.77	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	2.6		0.77	MDL	1.9	PQL	ug/Kg	J	FD
PHENANTHRENE	3.5		0.77	MDL	1.9	PQL	ug/Kg	J	FD
PYRENE	12		0.77	MDL	1.9	PQL	ug/Kg	J	FD

Sample ID: SL-101-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.81	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	0.67	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	0.91	J	0.79	MDL	2.0	PQL	ug/Kg	U	F
PHENANTHRENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-102-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:36:00 *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	6.8	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.2	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.7	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.6	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.83	MDL	2.1	PQL	ug/Kg	U	F

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
2-METHYLNAPHTHALENE	0.95	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.98	J	0.83	MDL	2.1	PQL	ug/Kg	J	Z
Diethylphthalate	11	J	7.4	MDL	22	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.4	J	7.4	MDL	22	PQL	ug/Kg	J	Z

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 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
BENZO(B)FLUORANTHENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
Diethylphthalate	7.4	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	11	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.89	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.87	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z
NAPHTHALENE	0.90	J	0.76	MDL	1.9	PQL	ug/Kg	U	F
PHENANTHRENE	1.4	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory:** LL

EDD Filename: PrepDE051_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 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
BIS(2-ETHYLHEXYL)PHTHALATE	9.4	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 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
Di-n-butylphthalate	8.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	140	J	120	MDL	620	PQL	ug/Kg	J	Z, Q
METHANOL	520	J	120	MDL	620	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: FB06-SA5B-122210 *Collected:* 12/22/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	1	J	0.8	MDL	5	PQL	ug/L	J	Z

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES *Dilution:* 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.43	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *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	0.44	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-118-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:10:00 *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	0.43	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-145-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 2:54:00 *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	0.38	J	0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-157-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 10:48:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.09	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 12:09:00 *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	0.41	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result .

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: PrepDE051_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE051

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE051
EDD Filename: DE051_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB08-SA5B-122210 (RES)	Sampling To Analysis	26.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE051 Laboratory: LL

EDD Filename: DE051_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA36B260542	1/6/2011 5:42:00 AM	N-NITROSODIMETHYLAMINE	1.95 ng/L	FB06-SA5B-122210

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

Sample ID	Analyte	Reported Result	Modified Final Result
FB06-SA5B-122210(RES)	N-NITROSODIMETHYLAMINE	1.82 ng/L	1.82U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36408BB220923	12/31/2010 9:23:00 AM	ALUMINUM	5.76 mg/Kg	DUP10-SA5B-QC-122210
		CALCIUM	12.6 mg/Kg	SED-010-SIV-SD-0.0-0.5
		PHOSPHORUS	1.68 mg/Kg	SL-024-SA5B-SS-0.0-0.5
		STRONTIUM	0.0650 mg/Kg	SL-100-SA5B-SS-0.0-0.5
				SL-101-SA5B-SS-0.0-0.5
				SL-102-SA5B-SS-0.0-0.5
				SL-114-SA5B-SS-0.0-0.5
				SL-117-SA5B-SS-0.0-0.5
				SL-118-SA5B-SS-0.0-0.5
				SL-145-SA5B-SB-4.0-5.0
				SL-157-SA5B-SB-4.0-5.0
				SL-157-SA5B-SB-9.0-10.0
				SL-158-SA5B-SB-4.0-5.0

Method: 6020
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P36550AB220811A	1/6/2011 8:11:00 AM	COPPER	0.00058 mg/L	EB08-SA5B-122210
		LEAD	0.00023 mg/L	FB06-SA5B-122210

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5B-122210(REA5)	LEAD	0.000055 mg/L	0.000055U mg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01026BB220913A	1/12/2011 9:13:00 AM	COPPER	0.0719 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0
P36426BB221325A	1/6/2011 1:25:00 PM	ARSENIC LEAD NICKEL	0.0658 mg/Kg 0.0128 mg/Kg 0.146 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0
P36426BB221325B	1/6/2011 1:25:00 PM	SELENIUM	0.0389 mg/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-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
DUP10-SA5B-QC-122210(REA2)	SELENIUM	0.121 mg/Kg	0.121U mg/Kg
SED-010-SIV-SD-0.0-0.5(REA2)	SELENIUM	0.137 mg/Kg	0.137U mg/Kg
SL-024-SA5B-SS-0.0-0.5(REA2)	SELENIUM	0.152 mg/Kg	0.152U mg/Kg
SL-100-SA5B-SS-0.0-0.5(REA2)	SELENIUM	0.127 mg/Kg	0.127U mg/Kg
SL-114-SA5B-SS-0.0-0.5(REA2)	SELENIUM	0.188 mg/Kg	0.188U mg/Kg
SL-145-SA5B-SB-4.0-5.0(REA2)	SELENIUM	0.163 mg/Kg	0.163U mg/Kg
SL-157-SA5B-SB-4.0-5.0(REA2)	SELENIUM	0.146 mg/Kg	0.146U mg/Kg
SL-157-SA5B-SB-9.0-10.0(REA2)	SELENIUM	0.104 mg/Kg	0.104U mg/Kg
SL-158-SA5B-SB-4.0-5.0(REA2)	SELENIUM	0.162 mg/Kg	0.162U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P63630AB322004A	12/29/2010 8:04:00 PM	METHANOL	110 ug/Kg	SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5

Method: **8081A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P65659AB241311A	1/19/2011 1:11:00 PM	DELTA-BHC	0.082 ug/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P04044AB240236A	1/10/2011 2:36:00 AM	2,4-DB	1.1 ug/Kg	DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-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
DUP10-SA5B-QC-122210(RES)	2,4-DB	1.7 ug/Kg	2.0U ug/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	2,4-DB	0.97 ug/Kg	2.1U ug/Kg
SL-102-SA5B-SS-0.0-0.5(RES)	2,4-DB	1.2 ug/Kg	1.9U ug/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	2,4-DB	0.87 ug/Kg	2.1U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB29B211244A	12/28/2010 12:44:00 PM	METHYLENE CHLORIDE O-XYLENE TOLUENE	0.39 ug/Kg 0.18 ug/Kg 0.17 ug/Kg	SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-158-SA5B-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_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-114-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.43 ug/Kg	4.0U ug/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.11 ug/Kg	4.0U ug/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.44 ug/Kg	4.2U ug/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.15 ug/Kg	4.2U ug/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	0.43 ug/Kg	4.0U ug/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	TOLUENE	0.11 ug/Kg	4.0U ug/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.38 ug/Kg	3.7U ug/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	3.7U ug/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	3.8U ug/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.41 ug/Kg	4.2U ug/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	4.2U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC36B260849	1/6/2011 8:49:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-octylphthalate	0.056 ug/L 0.056 ug/L 0.082 ug/L	EB08-SA5B-122210 FB06-SA5B-122210

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5B-122210(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.25 ug/L	1.1U ug/L
EB08-SA5B-122210(RES)	Butylbenzylphthalate	0.067 ug/L	1.1U ug/L
EB08-SA5B-122210(RES)	Di-n-octylphthalate	0.083 ug/L	1.1U ug/L
FB06-SA5B-122210(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.22 ug/L	1.0U ug/L
FB06-SA5B-122210(RES)	Butylbenzylphthalate	0.065 ug/L	1.0U ug/L
FB06-SA5B-122210(RES)	Di-n-octylphthalate	0.087 ug/L	1.0U ug/L

Field Blank Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

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

Field Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
FB06-SA5B-122210(RES)	12/22/2010 1:30:00 PM	1-METHYLNAPHTHALENE	0.017 ug/L	DUP10-SA5B-QC-122210
		2-METHYLNAPHTHALENE	0.022 ug/L	SL-024-SA5B-SS-0.0-0.5
		BIS(2-ETHYLHEXYL)PHTHALATE	0.22 ug/L	SL-100-SA5B-SS-0.0-0.5
		Butylbenzylphthalate	0.065 ug/L	SL-101-SA5B-SS-0.0-0.5
		Di-n-butylphthalate	0.069 ug/L	SL-102-SA5B-SS-0.0-0.5
		Di-n-octylphthalate	0.087 ug/L	SL-114-SA5B-SS-0.0-0.5
		NAPHTHALENE	0.29 ug/L	SL-117-SA5B-SS-0.0-0.5
				SL-118-SA5B-SS-0.0-0.5
				SL-145-SA5B-SB-4.0-5.0
				SL-157-SA5B-SB-4.0-5.0
				SL-157-SA5B-SB-9.0-10.0
				SL-158-SA5B-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-101-SA5B-SS-0.0-0.5(RES)	NAPHTHALENE	0.91 ug/Kg	2.0U ug/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	NAPHTHALENE	0.84 ug/Kg	2.1U ug/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	NAPHTHALENE	0.90 ug/Kg	1.9U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_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-100-SA5B-SS-0.0-0.5MS (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	VANADIUM	72	-	75.00-125.00	-	VANADIUM	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-100-SA5B-SS-0.0-0.5MS (SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	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-114-SA5B-SS-0.0-0.5MS SL-114-SA5B-SS-0.0-0.5MSD (SL-114-SA5B-SS-0.0-0.5)	Isopropanol	68	66	75.00-125.00	-	Isopropanol	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MSD (SL-100-SA5B-SS-0.0-0.5)	AROCLOR 1016	-	167	29.00-146.00	-	AROCLOR 1016, 1221, 1232	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MSD (SL-100-SA5B-SS-0.0-0.5)	DINOSEB	-	-	1.00-44.00	69 (35.00)	DINOSEB	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	ZINC	-	153	75.00-125.00	-	ZINC	No Qual, >4x
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	ANTIMONY ARSENIC	32 174	35 -	75.00-125.00 75.00-125.00	- 23 (20.00)	ANTIMONY ARSENIC	J(all detects) UJ(all non-detects)
SL-100-SA5B-SS-0.0-0.5MS SL-100-SA5B-SS-0.0-0.5MSD (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	BARIUM	148	277	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_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-100-SA5B-SS-0.0-0.5MS **SL-100-SA5B-SS-0.0-0.5MSD** (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	MANGANESE PHOSPHORUS POTASSIUM TITANIUM	207 144 165 393	- 142 170 358	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	MANGANESE PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Mn, Ti No Qual, >4x
SL-100-SA5B-SS-0.0-0.5MS **SL-100-SA5B-SS-0.0-0.5MSD** (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	ALUMINUM CALCIUM	1246 -91	-101 -258	75.00-125.00 75.00-125.00	- -	ALUMINUM CALCIUM	No Qual, >4x
SL-100-SA5B-SS-0.0-0.5MS **SL-100-SA5B-SS-0.0-0.5MSD** (DUP10-SA5B-QC-122210 SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	IRON MAGNESIUM	7037 856	- 153	75.00-125.00 75.00-125.00	31 (20.00) 25 (20.00)	IRON MAGNESIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_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-SA5B-SS-0.0-0.5DUP	FLUORIDE	32	20.00	
(SL-024-SA5B-SS-0.0-0.5	Nitrate-NO3	200	20.00	
SL -100-SA5B-SS-0.0-0.5				
SL -102-SA5B-SS-0.0-0.5				
SL -114-SA5B-SS-0.0-0.5				No Qual
SL -118-SA5B-SS-0.0-0.5				OK by difference
SL -145-SA5B-SB-4.0-5.0				
SL -157-SA5B-SB-4.0-5.0				
SL -157-SA5B-SB-9.0-10.0				
SL -158-SA5B-SB-4.0-5.0)				

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP	CALCIUM	49	20.00	
(DUP10-SA5B-QC-122210	STRONTIUM	28	20.00	
SED -010-SIV-SD-0.0-0.5	Zirconium	25	20.00	
SL -024-SA5B-SS-0.0-0.5				
SL -100-SA5B-SS-0.0-0.5				
SL -101-SA5B-SS-0.0-0.5				
SL -102-SA5B-SS-0.0-0.5				J(all detects)
SL -114-SA5B-SS-0.0-0.5				UJ(all non-detects)
SL -117-SA5B-SS-0.0-0.5				
SL -118-SA5B-SS-0.0-0.5				Zr No Qual
SL -145-SA5B-SB-4.0-5.0				OK by difference
SL -157-SA5B-SB-4.0-5.0				
SL -157-SA5B-SB-9.0-10.0				
SL -158-SA5B-SB-4.0-5.0)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP	ANTIMONY	200	20.00	
(DUP10-SA5B-QC-122210	ARSENIC	30	20.00	
SED -010-SIV-SD-0.0-0.5	COPPER	32	20.00	
SL -024-SA5B-SS-0.0-0.5	VANADIUM	32	20.00	
SL -100-SA5B-SS-0.0-0.5				
SL -101-SA5B-SS-0.0-0.5				
SL -102-SA5B-SS-0.0-0.5				J(all detects)
SL -114-SA5B-SS-0.0-0.5				UJ(all non-detects)
SL -117-SA5B-SS-0.0-0.5				
SL -118-SA5B-SS-0.0-0.5				Sb No Qual
SL -145-SA5B-SB-4.0-5.0				OK by difference
SL -157-SA5B-SB-4.0-5.0				
SL -157-SA5B-SB-9.0-10.0				
SL -158-SA5B-SB-4.0-5.0)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5B-SS-0.0-0.5DUP (DUP10-SA5B-QC-122210 SED -010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5 SL-145-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-4.0-5.0 SL-157-SA5B-SB-9.0-10.0 SL-158-SA5B-SB-4.0-5.0)	HEXAVALENT CHROMIUM	42	20.00	No Qual OK by difference

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03573AY240031A (EB08-SA5B-122210 FB06-SA5B-122210)	4,4'-DDE	-	137	66.00-130.00	-	4,4'-DDE	J (all detects)

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03574AY241535A (EB08-SA5B-122210 FB06-SA5B-122210)	AROCLOR 1260	-	142	56.00-135.00	-	AROCLOR 1242, 1248, 1254, 1260	J(all detects)
P03574AQ241612A P03574AY241554A (EB08-SA5B-122210 FB06-SA5B-122210)	Aroclor 5442	56	64	75.00-125.00	-	Aroclor 5432, 5442, 5460	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
P2WCLCSQ260921	BIS(2-ETHYLHEXYL)PHTHALAT	-	-	70.00-130.00	33 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
P2WCLCSY260953	Dimethylphthalate	66	69	70.00-130.00	-	Dimethylphthalate	J(all detects)
(EB08-SA5B-122210 FB06-SA5B-122210)	N-NITROSODIMETHYLAMINE	55	51	70.00-130.00	-	N-NITROSODIMETHYLAMINE	UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P03659AQ241325A	ALDRIN	139	-	44.00-135.00	-	ALDRIN	
(DUP10-SA5B-QC-122210	HEPTACHLOR EPOXIDE	133	-	65.00-131.00	-	HEPTACHLOR EPOXIDE	
SED-010-SIV-SD-0.0-0.5 SL-024-SA5B-SS-0.0-0.5 SL-100-SA5B-SS-0.0-0.5 SL-101-SA5B-SS-0.0-0.5 SL-102-SA5B-SS-0.0-0.5 SL-114-SA5B-SS-0.0-0.5 SL-117-SA5B-SS-0.0-0.5 SL-118-SA5B-SS-0.0-0.5)							J(all detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_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
P10044AQ240304A (DUP10 -SA5B -QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B -SS-0.0-0.5 SL -100-SA5B -SS-0.0-0.5 SL -101-SA5B -SS-0.0-0.5 SL -102-SA5B -SS-0.0-0.5 SL -114-SA5B -SS-0.0-0.5 SL -117-SA5B -SS-0.0-0.5 SL -118-SA5B -SS-0.0-0.5)	DINOSEB	5	-	10.00-136.00	-	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
P36426BQ221328A (DUP10 -SA5B -QC-122210 SED -010-SIV-SD-0.0-0.5 SL -024-SA5B -SS-0.0-0.5 SL -100-SA5B -SS-0.0-0.5 SL -101-SA5B -SS-0.0-0.5 SL -102-SA5B -SS-0.0-0.5 SL -114-SA5B -SS-0.0-0.5 SL -117-SA5B -SS-0.0-0.5 SL -118-SA5B -SS-0.0-0.5 SL -145-SA5B -SB-4.0-5.0 SL -157-SA5B -SB-4.0-5.0 SL -157-SA5B -SB-9.0-10.0 SL -158-SA5B -SB-4.0-5.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-114-SA5B-SS-0.0-0.5	N-Nitrosodimethylamine-d6	592	50.00-150.00	All Target Analytes	No Qual Diluted Out
SL-117-SA5B-SS-0.0-0.5	N-Nitrosodimethylamine-d6	733	50.00-150.00	All Target Analytes	No Qual Diluted Out
SL-118-SA5B-SS-0.0-0.5	N-Nitrosodimethylamine-d6	515	50.00-150.00	All Target Analytes	No Qual Diluted Out
SL-145-SA5B-SB-4.0-5.0	N-Nitrosodimethylamine-d6	596	50.00-150.00	All Target Analytes	No Qual Diluted Out

Method: 8081A
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB08-SA5B-122210	DECACHLOROBIPHENYL	127	20.00-120.00	All Target Analytes	J(all detects)
FB06-SA5B-122210	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-101-SA5B-SS-0.0-0.5	TETRACHLORO-M-XYLENE	40	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-114-SA5B-SS-0.0-0.5	DECACHLOROBIPHENYL	128	20.00-120.00	All Target Analytes	J(all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP10-SA5B-QC-122210	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	124 146	45.00-120.00 53.00-139.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB08-SA5B-122210	DECACHLOROBIPHENYL	137	45.00-120.00	All Target Analytes	J(all detects)
FB06-SA5B-122210	DECACHLOROBIPHENYL	126	45.00-120.00	All Target Analytes	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-157-SA5B-SB-9.0-10.0	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
SL-158-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	123	45.00-120.00	All Target Analytes	J(all detects)

Method: **8151A**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
FB06-SA5B-122210	2,4-Dichlorophenylacetic acid	133	70.00-130.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
MOISTURE	13.9	13.7	1		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
FLUORIDE	1.5	1.3	14	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
ALUMINUM	15500	13900	11	50.00	
BORON	5.13	4.36	16	50.00	
IRON	21000	18600	12	50.00	
LITHIUM	23.0	21.0	9	50.00	
MAGNESIUM	4940	4260	15	50.00	
MANGANESE	283	261	8	50.00	
PHOSPHORUS	423	361	16	50.00	No Qualifiers Applied
POTASSIUM	3050	2800	9	50.00	
SODIUM	95.5	92.3	3	50.00	
STRONTIUM	25.6	18.7	31	50.00	
TIN	2.26	2.22	2	50.00	
TITANIUM	1130	1120	1	50.00	
Zirconium	3.01	1.88	46	50.00	
CALCIUM	5190	3070	51	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
ANTIMONY	0.120	0.0960	22	50.00	
ARSENIC	3.21	4.90	42	50.00	
BARIUM	102	98.1	4	50.00	
BERYLLIUM	0.404	0.467	14	50.00	
CADMIUM	0.121	0.133	9	50.00	
CHROMIUM	14.9	16.6	11	50.00	
COBALT	5.29	5.52	4	50.00	
COPPER	13.5	11.2	19	50.00	
LEAD	5.00	5.68	13	50.00	No Qualifiers Applied
MOLYBDENUM	0.447	0.615	32	50.00	
NICKEL	10.4	11.8	13	50.00	
SELENIUM	0.127	0.121	5	50.00	
SILVER	0.0305	0.0302	1	50.00	
THALLIUM	0.243	0.259	6	50.00	
VANADIUM	48.4	39.4	21	50.00	
ZINC	57.2	56.2	2	50.00	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
HEXAVALENT CHROMIUM	0.30	0.39	26	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
MERCURY	0.0161	0.0128	23	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
AROCLOR 1254	2.0 U	6.4	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	2.0 U	2.5	200	50.00	
Aroclor 5460	3.8 U	2.1	200	50.00	

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
2,4,5-T	0.12	0.20 U	200	50.00	J(all detects) UJ(all non-detects)
2,4-DB	2.0 U	1.7	200	50.00	
MCPP	290 U	430	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
ANTHRACENE	0.81	1.9 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)ANTHRACENE	7.0	1.6	126	50.00	
BENZO(A)PYRENE	6.1	2.0	101	50.00	
BENZO(B)FLUORANTHENE	9.2	3.7	85	50.00	
BENZO(G,H,I)PERYLENE	3.0	1.4	73	50.00	
BENZO(K)FLUORANTHENE	3.6	1.2	100	50.00	
CHRYSENE	6.8	2.2	102	50.00	
DIBENZO(A,H)ANTHRACENE	0.80	1.9 U	200	50.00	
Di-n-butylphthalate	10	21 U	200	50.00	
FLUORANTHENE	12	2.6	129	50.00	
INDENO(1,2,3-CD)PYRENE	2.6	0.97	91	50.00	
PHENANTHRENE	3.5	1.9 U	200	50.00	
PYRENE	12	2.7	127	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
BIS(2-ETHYLHEXYL)PHTHALATE	20	23	14	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
PH	7.70	8.17	6	50.00	No Qualifiers Applied

Method: ASTM D1498
Matrix: SO

Analyte	Concentration (mV)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
Oxidation Reduction Potential	459	429	7		No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	IRON	J	0.0640	0.200	PQL	mg/L	J (all detects)

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	LEAD	J	0.000055	0.0010	PQL	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
FB06-SA5B-122210	CHLOROFORM	J	1	5	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.25	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.067	1.1	PQL	ug/L	
	Diethylphthalate	J	0.098	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.40	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.083	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.034	0.053	PQL	ug/L	
FB06-SA5B-122210	1-METHYLNAPHTHALENE	J	0.017	0.052	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.022	0.052	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.22	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.065	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.069	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.087	1.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	BORON	J	4.36	5.62	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.3	112	PQL	mg/Kg	
	TIN	J	2.22	11.2	PQL	mg/Kg	
	Zirconium	J	1.88	5.62	PQL	mg/Kg	
SED-010-SIV-SD-0.0-0.5	SODIUM	J	56.7	119	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	11.9	PQL	mg/Kg	
SL-024-SA5B-SS-0.0-0.5	BORON	J	4.85	6.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	120	PQL	mg/Kg	
	TIN	J	2.26	12.0	PQL	mg/Kg	
	Zirconium	J	2.14	6.02	PQL	mg/Kg	

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5B-SS-0.0-0.5	BORON	J	5.13	5.69	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.5	114	PQL	mg/Kg	
	TIN	J	2.26	11.4	PQL	mg/Kg	
	Zirconium	J	3.01	5.69	PQL	mg/Kg	
SL-101-SA5B-SS-0.0-0.5	BORON	J	5.41	5.66	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	11.3	PQL	mg/Kg	
	Zirconium	J	2.40	5.66	PQL	mg/Kg	
SL-102-SA5B-SS-0.0-0.5	BORON	J	4.70	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.27	10.9	PQL	mg/Kg	
	Zirconium	J	2.04	5.43	PQL	mg/Kg	
SL-114-SA5B-SS-0.0-0.5	TIN	J	2.21	12.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.94	6.23	PQL	mg/Kg	
SL-117-SA5B-SS-0.0-0.5	TIN	J	2.05	12.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.97	6.14	PQL	mg/Kg	
SL-118-SA5B-SS-0.0-0.5	BORON	J	5.79	5.84	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.7	117	PQL	mg/Kg	
	TIN	J	1.61	11.7	PQL	mg/Kg	
	Zirconium	J	1.94	5.84	PQL	mg/Kg	
SL-145-SA5B-SB-4.0-5.0	TIN	J	1.77	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.17	5.45	PQL	mg/Kg	
SL-157-SA5B-SB-4.0-5.0	BORON	J	3.70	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.5	PQL	mg/Kg	
	Zirconium	J	1.84	5.23	PQL	mg/Kg	
SL-157-SA5B-SB-9.0-10.0	BORON	J	3.90	5.52	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.7	110	PQL	mg/Kg	
	TIN	J	2.36	11.0	PQL	mg/Kg	
	Zirconium	J	2.05	5.52	PQL	mg/Kg	
SL-158-SA5B-SB-4.0-5.0	BORON	J	3.92	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	11.1	PQL	mg/Kg	
	Zirconium	J	2.09	5.54	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	ANTIMONY	J	0.0960	0.232	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.463	PQL	mg/Kg	
	SILVER	J	0.0302	0.116	PQL	mg/Kg	
SED-010-SIV-SD-0.0-0.5	SELENIUM	J	0.137	0.465	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0232	0.116	PQL	mg/Kg	
SL-024-SA5B-SS-0.0-0.5	SELENIUM	J	0.152	0.501	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0342	0.125	PQL	mg/Kg	
SL-100-SA5B-SS-0.0-0.5	ANTIMONY	J	0.120	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.455	PQL	mg/Kg	
	SILVER	J	0.0305	0.114	PQL	mg/Kg	
SL-101-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0982	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.210	0.453	PQL	mg/Kg	
	SILVER	J	0.0532	0.113	PQL	mg/Kg	
SL-102-SA5B-SS-0.0-0.5	ANTIMONY	J	0.134	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.195	0.443	PQL	mg/Kg	
	SILVER	J	0.0333	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	ANTIMONY	J	0.0895	0.247	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.188	0.494	PQL	mg/Kg	
	SILVER	J	0.0289	0.123	PQL	mg/Kg	
SL-117-SA5B-SS-0.0-0.5	ANTIMONY	J	0.189	0.248	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.296	0.496	PQL	mg/Kg	
	SILVER	J	0.0309	0.124	PQL	mg/Kg	
SL-118-SA5B-SS-0.0-0.5	ANTIMONY	J	0.128	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.265	0.458	PQL	mg/Kg	
	SILVER	J	0.0300	0.114	PQL	mg/Kg	
SL-145-SA5B-SB-4.0-5.0	ANTIMONY	J	0.103	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.163	0.453	PQL	mg/Kg	
	SILVER	J	0.0394	0.113	PQL	mg/Kg	
SL-157-SA5B-SB-4.0-5.0	SELENIUM	J	0.146	0.426	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0237	0.107	PQL	mg/Kg	
SL-157-SA5B-SB-9.0-10.0	ANTIMONY	J	0.0651	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.104	0.429	PQL	mg/Kg	
	SILVER	J	0.0339	0.107	PQL	mg/Kg	
SL-158-SA5B-SB-4.0-5.0	SELENIUM	J	0.162	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0396	0.110	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-024-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.25	1.3	PQL	mg/Kg	J (all detects)
SL-100-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.30	1.2	PQL	mg/Kg	J (all detects)
SL-102-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-114-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.2	PQL	mg/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.2	PQL	mg/Kg	J (all detects)
SL-118-SA5B-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.2	PQL	mg/Kg	J (all detects)
SL-145-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5B-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	MERCURY	J	0.0128	0.113	PQL	mg/Kg	J (all detects)
SED-010-SIV-SD-0.0-0.5	MERCURY	J	0.0093	0.122	PQL	mg/Kg	J (all detects)
SL-024-SA5B-SS-0.0-0.5	MERCURY	J	0.0108	0.120	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 | Laboratory: LL

EDD Filename: DE051_v1 | eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5B-SS-0.0-0.5	MERCURY	J	0.0161	0.109	PQL	mg/Kg	J (all detects)
SL-102-SA5B-SS-0.0-0.5	MERCURY	J	0.0763	0.108	PQL	mg/Kg	J (all detects)
SL-157-SA5B-SB-4.0-5.0	MERCURY	J	0.0042	0.110	PQL	mg/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	MERCURY	J	0.0048	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	Isopropanol	J	140	620	PQL	ug/Kg	J (all detects)
	METHANOL	J	520	620	PQL	ug/Kg	

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	0.61	1.5	PQL	mg/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	0.72	1.5	PQL	mg/Kg	J (all detects)
SL-118-SA5B-SS-0.0-0.5	EFH (C15-C20)	J	0.80	1.4	PQL	mg/Kg	J (all detects)
SL-145-SA5B-SB-4.0-5.0	EFH (C15-C20)	J	0.94	1.4	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-101-SA5B-SS-0.0-0.5	ENDOSULFAN SULFATE	J	0.20	0.40	PQL	ug/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	4,4'-DDT	J	0.10	0.42	PQL	ug/Kg	J (all detects)
	MIREX	J	0.13	0.42	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	Aroclor 5460	J	2.1	3.8	PQL	ug/Kg	J (all detects)
SED-010-SIV-SD-0.0-0.5	AROCLOR 1254	J	2.0	2.1	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.2	2.1	PQL	ug/Kg	
SL-024-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.2	2.1	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.4	4.1	PQL	ug/Kg	
SL-114-SA5B-SS-0.0-0.5	AROCLOR 1260	J	1.1	2.1	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	4.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-118-SA5B-SS-0.0-0.5	AROCLOR 1254	J	0.79	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	2.0	PQL	ug/Kg	
	Aroclor 5460	J	2.5	3.9	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	2,4-DB	J	1.7	2.0	PQL	ug/Kg	J (all detects)
SL-024-SA5B-SS-0.0-0.5	2,4-DB	J	0.97	2.1	PQL	ug/Kg	J (all detects)
SL-100-SA5B-SS-0.0-0.5	2,4,5-T	J	0.12	0.20	PQL	ug/Kg	J (all detects)
SL-101-SA5B-SS-0.0-0.5	MCPA	J	180	290	PQL	ug/Kg	J (all detects)
SL-102-SA5B-SS-0.0-0.5	2,4-DB	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-114-SA5B-SS-0.0-0.5	2,4-DB	J	0.87	2.1	PQL	ug/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	DICHLOROPROP	J	2.0	2.1	PQL	ug/Kg	J (all detects)
	MCPA	J	240	310	PQL	ug/Kg	
SL-118-SA5B-SS-0.0-0.5	MCPA	J	110	290	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.43	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.0	PQL	ug/Kg	
SL-117-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.44	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.15	4.2	PQL	ug/Kg	
SL-118-SA5B-SS-0.0-0.5	METHYLENE CHLORIDE	J	0.43	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.0	PQL	ug/Kg	
SL-145-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.38	3.7	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	3.7	PQL	ug/Kg	
SL-157-SA5B-SB-4.0-5.0	TOLUENE	J	0.09	3.8	PQL	ug/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.41	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	4.2	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	390	PQL	ug/Kg	J (all detects)
SED-010-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	130	410	PQL	ug/Kg	J (all detects)
SL-100-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	390	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-101-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	58	390	PQL	ug/Kg	J (all detects)
SL-114-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	87	420	PQL	ug/Kg	J (all detects)
SL-117-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	410	PQL	ug/Kg	J (all detects)
SL-118-SA5B-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	BENZO(A)ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.97	1.9	PQL	ug/Kg	
SED-010-SIV-SD-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.1	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	2.0	PQL	ug/Kg	
	PYRENE	J	1.0	2.0	PQL	ug/Kg	
SL-024-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	2.1	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.85	2.1	PQL	ug/Kg	
	CHRYSENE	J	1.6	2.1	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	23	PQL	ug/Kg	
	PYRENE	J	2.0	2.1	PQL	ug/Kg	
SL-100-SA5B-SS-0.0-0.5	ANTHRACENE	J	0.81	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.80	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	10	21	PQL	ug/Kg	
SL-101-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.81	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.67	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.91	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	2.0	PQL	ug/Kg	
	PYRENE	J	1.2	2.0	PQL	ug/Kg	
SL-102-SA5B-SS-0.0-0.5	Diethylphthalate	J	7.7	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.2	20	PQL	ug/Kg	
SL-114-SA5B-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.7	2.1	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.3	2.1	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	2.1	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	2.1	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	2.1	PQL	ug/Kg	
SL-117-SA5B-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.95	2.1	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	0.98	2.1	PQL	ug/Kg	
	Diethylphthalate	J	11	22	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.4	22	PQL	ug/Kg	
SL-118-SA5B-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	2.0	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.0	2.0	PQL	ug/Kg	
	Diethylphthalate	J	7.4	21	PQL	ug/Kg	
	Di-n-butylphthalate	J	11	21	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE051 **Laboratory: LL**

EDD Filename: DE051_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-145-SA5B-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.89	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	0.87	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.2	21	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.90	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.9	PQL	ug/Kg	
	PYRENE	J	0.78	1.9	PQL	ug/Kg	
SL-157-SA5B-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.4	20	PQL	ug/Kg	J (all detects)
SL-158-SA5B-SB-4.0-5.0	Di-n-butylphthalate	J	8.2	20	PQL	ug/Kg	J (all detects)

LDC #: 25550G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/4

SDG #: DE051 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: dL

2nd Reviewer: W

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn 74x)
VII.	Duplicate Sample Analysis	N	Dup (Sb; Zr < 5x)
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	J/UJ/A (A)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=2, *FB=3

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

Validated Samples:

1	DUP10-SA5B-QC-122210	11	SL-024-SA5B-SS--0.0-0.5	21		31	
2	EB08-SA5B-122210	12	SL-157-SA5B-SS-4.0-5.0	22		32	
3	FB06-SA5B-122210	13	SL-158-SA5B-SS-4.0-5.0	23		33	
4	SED-010-SIV-SD-0.0-0.5	14	SL-157-SA5B-SS-9.0-10.0	24		34	
5	SL-101-SA5B-SS-0.0-0.5	15	SL-145-SA5B-SS-4.0-5.0	25		35	
6	SL-117-SA5B-SS--0.0-0.5	16	SL-100-SA5B-SS--0.0-0.5MS	26		36	
7	SL-118-SA5B-SS--0.0-0.5	17	SL-100-SA5B-SS--0.0-0.5MSD	27		37	
8	SL-100-SA5B-SS--0.0-0.5	18	SL-100-SA5B-SS--0.0-0.5DUP	28		38	
9	SL-114-SA5B-SS--0.0-0.5	19		29		39	
10	SL-102-SA5B-SS--0.0-0.5	20		30		40	

Notes: _____

LDC #: 2555064

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: [signature]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-15		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
QC16-18		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr

Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25550G4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x ICPMS (2dil)
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	5	6	7	8	9	10	13	14	15		
Sb			0.39	0.39	0.096	0.098	0.19	0.13	0.12	0.089	0.13	0.066	0.065	0.10		

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 #: 25550G4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: OR
2nd Reviewer:

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/KG
Sampling date: 12/22/10 Soil factor applied 100x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification										
	2	Action Level	No Qualifiers									
Fe	64.0	32										
Pb	0.055	0.0275										

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 9
SERIAL DILUTIONS
SDG No.: DE051
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6173167BKG Serial Dilution Lab Sample ID: 6173167L
Batch ID(s): P36408B, P36426B, P01026B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		136129.7800		127477.3000		6		P
Antimony	121	0.5279	B	1.5000	U	100		MS
Arsenic	75	14.1100		16.1300		14		MS
Barium	137	447.0000		496.0500		11	E	MS
Beryllium	9	1.7720		1.9050	B	8		MS
Boron		45.0200	B	65.3000	B	45		P
Cadmium	111	0.5325		0.9000	U	100		MS
Calcium		45607.0100		47789.8500		5		P
Chromium	52	65.5600		78.7500		20	E	MS
Cobalt	59	23.2200		28.1350		21	E	MS
Copper	63	57.9200		55.6000		4		MS
Iron		184162.5200		178821.0000		3		P
Lead	208	21.9700		23.2650		6		MS
Lithium		201.7500		206.2000		2		P
Magnesium		43413.3200		44314.6000		2		P
Manganese		2482.4600		2549.5500		3		P
Molybdenum	98	1.9630		2.5450		30		MS
Nickel	60	45.5200		55.6000		22		MS
Phosphorus		3717.5400		3715.0000		0		P
Potassium		26752.5400		27879.8500		4		P
Selenium	78	0.5569	B	1.0000	U	100		MS
Silver	107	0.1338	B	0.3000	U	100		MS
Sodium		838.3400	B	1865.0000	U	100		P
Strontium		224.4700		225.2000		0		P
Thallium	203	1.0690		1.0620	B	1		MS
Tin		19.8500	B	50.0000	U	100		P
Titanium		9920.4600		10413.7500		5		P
Vanadium	51	208.3000		200.4000		4		MS
Zinc	66	251.1000		281.0000		12		MS
Zirconium		26.4600	B	42.0000	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.

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

DE051 6252

SAMPLE DELIVERY GROUP

DE060

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	TB-011311	6183560	TB	5030B	8260B	III
13-Jan-2011	TB-011311	6183560	TB	5030B	8260B SIM	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3050B	6010B	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3050B	6020	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3060A	7199	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3550B	8082	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3550B	8270C	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	3550B	8270C SIM	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	5035	8260B	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	5035	8260B SIM	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	Gen Prep	9045M	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	METHOD	300.0	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	METHOD	314.0	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183554	N	METHOD	7471A	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3050B	6010B	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3050B	6020	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3060A	7199	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3550B	8082	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3550B	8270C	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	3550B	8270C SIM	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	5035	8260B	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	5035	8260B SIM	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	Gen Prep	9045M	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	METHOD	300.0	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	N	METHOD	314.0	III
13-Jan-2011	SL-301-SA5B-SB-4.0-5.0	6183547	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
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3050B	6010B	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3050B	6020	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3060A	7199	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8081A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8082	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8151A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8270C	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	3550B	8270C SIM	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	Gen Prep	9045M	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	METHOD	300.0	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	METHOD	314.0	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183555	N	METHOD	7471A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5MSD	P183555M241222A	MSD	3550B	8151A	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5MS	P183555R241154A	MS	3550B	8151A	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3050B	6010B	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3050B	6020	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3060A	7199	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3550B	8082	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3550B	8270C	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	3550B	8270C SIM	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	Gen Prep	9045M	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	METHOD	300.0	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	METHOD	314.0	III
13-Jan-2011	SL-301-SA5B-SB-7.5-8.5	6183548	N	METHOD	7471A	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3050B	6010B	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	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
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3550B	8082	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3550B	8270C	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	3550B	8270C SIM	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	5035	8260B	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	5035	8260B SIM	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	Gen Prep	9045M	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	METHOD	300.0	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	METHOD	314.0	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183551	N	METHOD	7471A	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0DUP	P183551D271743A	DUP	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0MS	P183551R271659A	MS	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3050B	6010B	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3050B	6020	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3060A	7199	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3550B	8082	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3550B	8270C	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	3550B	8270C SIM	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	Gen Prep	9045M	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	METHOD	300.0	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	METHOD	314.0	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10	6183552	N	METHOD	7471A	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3050B	6010B	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3050B	6020	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3060A	7199	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	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
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3550B	8270C	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	3550B	8270C SIM	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	5035	8260B	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	5035	8260B SIM	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	Gen Prep	9045M	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	METHOD	300.0	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	METHOD	314.0	III
13-Jan-2011	SL-074-SA5B-SB-4.0-5.0	6183549	N	METHOD	7471A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3050B	6010B	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3050B	6020	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3060A	7199	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8081A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8082	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8151A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8270C	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	3550B	8270C SIM	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	Gen Prep	9045M	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	METHOD	300.0	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	METHOD	314.0	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183556	N	METHOD	7471A	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5DUP	P183556D271317B	DUP	METHOD	300.0	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5MS	P183556R271329B	MS	METHOD	300.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3050B	6010B	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3050B	6020	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3060A	7199	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	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
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3550B	8270C	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	3550B	8270C SIM	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	Gen Prep	9045M	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	METHOD	300.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	METHOD	314.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0	6183550	N	METHOD	7471A	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0DUP	P183550D272146B	DUP	METHOD	314.0	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0DUP	P183550D291245B	DUP	Gen Prep	9045M	III
13-Jan-2011	SL-074-SA5B-SB-7.0-8.0MS	P183550R272210B	MS	METHOD	314.0	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3050B	6010B	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3050B	6020	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3060A	7199	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3550B	8082	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3550B	8270C	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	3550B	8270C SIM	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	5035	8260B	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	5035	8260B SIM	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	Gen Prep	9045M	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	METHOD	300.0	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	METHOD	314.0	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183553	N	METHOD	7471A	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3005A	6010B	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3020A	6020	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3510C	8082	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3510C	8270C	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	3510C	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	EB21-SA5B-011311	6183559	EB	Gen Prep	300.0	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	Gen Prep	314.0	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	Gen Prep	7199	III
13-Jan-2011	EB21-SA5B-011311	6183559	EB	METHOD	7470A	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3050B	6010B	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3050B	6020	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3060A	7199	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3550B	8082	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3550B	8270C	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	3550B	8270C SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	5035	8260B	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	5035	8260B SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	Gen Prep	9045M	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	METHOD	300.0	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	METHOD	314.0	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0	6183546	N	METHOD	7471A	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0DUP	P183546D270835A	DUP	METHOD	300.0	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MSD	P183546M241719A	MSD	3550B	8082	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MSD	P183546M261017	MSD	3550B	8270C	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MSD	P183546M261110	MSD	3550B	8270C SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R212313A	MS	5035	8260B	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R241700A	MS	3550B	8082	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R260952	MS	3550B	8270C	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R261038	MS	3550B	8270C SIM	III
13-Jan-2011	SL-073-SA5B-SB-4.0-5.0MS	P183546R270847A	MS	METHOD	300.0	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	3005A	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jan-2011	EB20-SA5B-011311	6183558	EB	3020A	6020	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	3510C	8082	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	3510C	8270C	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	3510C	8270C SIM	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	Gen Prep	300.0	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	Gen Prep	314.0	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	Gen Prep	7199	III
13-Jan-2011	EB20-SA5B-011311	6183558	EB	METHOD	7470A	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	3050B	6010B	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	3050B	6020	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	3060A	7199	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	3550B	8082	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	3550B	8270C	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	3550B	8270C SIM	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	5035	8260B	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	5035	8260B SIM	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	Gen Prep	9045M	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	METHOD	300.0	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	METHOD	314.0	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	N	METHOD	6850	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183557	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: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		1.1	MDL	1.4	PQL	mg/Kg	J	Q

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.0	J	48.8	MDL	131	PQL	mg/Kg	J	Z
TIN	2.74	J	1.31	MDL	13.1	PQL	mg/Kg	J	Z

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	65.7	J	51.3	MDL	138	PQL	mg/Kg	J	Z
TIN	2.53	J	1.38	MDL	13.8	PQL	mg/Kg	J	Z
Zirconium	2.10	J	1.16	MDL	6.88	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.41	J	1.10	MDL	11.0	PQL	mg/Kg	J	Z
Zirconium	1.25	J	0.923	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.00	J	1.12	MDL	11.2	PQL	mg/Kg	J	Z
Zirconium	1.66	J	0.937	MDL	5.58	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory:** LL

EDD Filename: PrepDE060_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.21	J	1.13	MDL	11.3	PQL	mg/Kg	J	Z
Zirconium	2.53	J	0.952	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.82	J	1.10	MDL	11.0	PQL	mg/Kg	J	Z
Zirconium	1.43	J	0.927	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	106	J	40.5	MDL	109	PQL	mg/Kg	J	Z
TIN	2.59	J	1.09	MDL	10.9	PQL	mg/Kg	J	Z
Zirconium	1.69	J	0.913	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	68.0	J	39.9	MDL	107	PQL	mg/Kg	J	Z
TIN	2.15	J	1.07	MDL	10.7	PQL	mg/Kg	J	Z
Zirconium	1.92	J	0.899	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.08	J	1.26	MDL	12.6	PQL	mg/Kg	J	Z
Zirconium	1.83	J	1.06	MDL	6.30	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.33	J	1.12	MDL	11.2	PQL	mg/Kg	J	Z
Zirconium	2.49	J	0.945	MDL	5.62	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.01	J	1.11	MDL	11.1	PQL	mg/Kg	J	Z
Zirconium	2.28	J	0.933	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.48	J	1.14	MDL	11.4	PQL	mg/Kg	J	Z
Zirconium	1.79	J	0.955	MDL	5.69	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0761	MDL	0.254	PQL	mg/Kg	J	Z
SILVER	0.0798	J	0.0152	MDL	0.127	PQL	mg/Kg	J	Z

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0508	MDL	0.508	PQL	mg/Kg	J	Z

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0370	J	0.0167	MDL	0.139	PQL	mg/Kg	J	Z

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0555	MDL	0.555	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory:** LL

EDD Filename: PrepDE060_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0698	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0440	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.195	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z
SILVER	0.0588	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.108	J	0.0676	MDL	0.225	PQL	mg/Kg	J	Z
CADMIUM	0.0458	J	0.0450	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0987	J	0.0450	MDL	0.450	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory:** LL

EDD Filename: PrepDE060_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0633	MDL	0.211	PQL	mg/Kg	J	Z
CADMIUM	0.0802	J	0.0422	MDL	0.106	PQL	mg/Kg	J	Z
SILVER	0.0158	J	0.0127	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0422	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0839	J	0.0642	MDL	0.214	PQL	mg/Kg	J	Z
CADMIUM	0.0657	J	0.0428	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0157	J	0.0128	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0428	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0779	MDL	0.260	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0697	J	0.0519	MDL	0.519	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.185	J	0.0669	MDL	0.223	PQL	mg/Kg	J	Z
CADMIUM	0.106	J	0.0446	MDL	0.111	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0181	J	0.0134	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.381	J	0.0446	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0648	MDL	0.216	PQL	mg/Kg	J	Z
SILVER	0.0540	J	0.0130	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0836	J	0.0432	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0737	J	0.0682	MDL	0.227	PQL	mg/Kg	J	Z
CADMIUM	0.0663	J	0.0455	MDL	0.114	PQL	mg/Kg	J	Z
SILVER	0.106	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: AQ**

Sample ID: EB20-SA5B-011311 *Collected:* 1/13/2011 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
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	R	H

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: AQ**

Sample ID: EB21-SA5B-011311 *Collected:* 1/13/2011 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	5.0	U	5.0	MDL	10.0	PQL	ug/L	R	H

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 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	0.29	J	0.28	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *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	0.26	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB20-SA5B-011311 *Collected:* 1/13/2011 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	0.000050	U	0.000050	MDL	0.00020	PQL	mg/L	UJ	L

Sample ID: EB21-SA5B-011311 *Collected:* 1/13/2011 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	0.000050	U	0.000050	MDL	0.00020	PQL	mg/L	UJ	L

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0036	MDL	0.127	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 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	0.0904	J	0.0040	MDL	0.140	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0054	J	0.0031	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0218	J	0.0032	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0050	J	0.0030	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0030	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0477	J	0.0036	MDL	0.126	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0056	J	0.0032	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0056	J	0.0033	MDL	0.115	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory:** LL

EDD Filename: PrepDE060_v1 **eQAPP Name:** CDM_SSFL_110509

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

Method Category: SVOA
Method: 8081A **Matrix:** SO

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.34	U	0.34	MDL	0.44	PQL	ug/Kg	UJ	S
4,4'-DDE	1.5	U	1.5	MDL	1.5	PQL	ug/Kg	UJ	S
4,4'-DDT	1.9	U	1.9	MDL	1.9	PQL	ug/Kg	UJ	S
ALDRIN	0.086	U	0.086	MDL	0.22	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.044	U	0.044	MDL	0.22	PQL	ug/Kg	UJ	S
BETA-BHC	0.078	U	0.078	MDL	0.22	PQL	ug/Kg	UJ	S
Chlordane	3.0	U	3.0	MDL	4.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.047	U	0.047	MDL	0.22	PQL	ug/Kg	UJ	S
DIELDRIN	0.086	U	0.086	MDL	0.44	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.058	U	0.058	MDL	0.22	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.34	U	0.34	MDL	0.44	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.086	U	0.086	MDL	0.44	PQL	ug/Kg	UJ	S
ENDRIN	0.086	U	0.086	MDL	0.44	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.54	U	0.54	MDL	0.54	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.38	U	0.38	MDL	0.44	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.044	U	0.044	MDL	0.22	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.26	U	0.26	MDL	0.26	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.044	U	0.044	MDL	0.22	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.44	U	0.44	MDL	2.2	PQL	ug/Kg	UJ	S
MIREX	0.086	U	0.086	MDL	0.44	PQL	ug/Kg	UJ	S
TOXAPHENE	2.9	U	2.9	MDL	8.6	PQL	ug/Kg	UJ	S

Method Category: SVOA
Method: 8082 **Matrix:** AQ

Sample ID: EB20-SA5B-011311 *Collected:* 1/13/2011 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
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: AQ**

Sample ID: EB21-SA5B-011311 *Collected:* 1/13/2011 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
Aroclor 5432	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5442	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L
Aroclor 5460	0.10	U	0.10	MDL	0.52	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.7		0.43	MDL	2.2	PQL	ug/Kg	J	S
AROCLOR 1260	3.3		0.43	MDL	2.2	PQL	ug/Kg	J	S
Aroclor 5432	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L
Aroclor 5442	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L
Aroclor 5460	3.0	J	1.3	MDL	4.3	PQL	ug/Kg	J	Z, S, L

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.47	MDL	2.4	PQL	ug/Kg	J	Z, S
Aroclor 5432	1.4	U	1.4	MDL	4.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.4	U	1.4	MDL	4.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.4	U	1.4	MDL	4.7	PQL	ug/Kg	UJ	L

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory:** LL

EDD Filename: PrepDE060_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	L

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.6	PQL	ug/Kg	UJ	L

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5442	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L
Aroclor 5460	1.3	U	1.3	MDL	4.3	PQL	ug/Kg	UJ	L

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	L

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	3.5	U	3.5	MDL	3.5	PQL	ug/Kg	R	Q
DINOSEB	1.0	U	1.0	MDL	3.1	PQL	ug/Kg	R	L
MCPP	340	U	340	MDL	340	PQL	ug/Kg	R	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	1.1	U	1.1	MDL	3.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB20-SA5B-011311 *Collected:* 1/13/2011 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

Sample ID: EB21-SA5B-011311 *Collected:* 1/13/2011 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
BENZOIC ACID	6	U	6	MDL	16	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *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	39	J	22	MDL	440	PQL	ug/Kg	U	B

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	24	MDL	470	PQL	ug/Kg	U	B

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	19	MDL	380	PQL	ug/Kg	U	B
Di-n-octylphthalate	26	J	19	MDL	190	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	19	MDL	390	PQL	ug/Kg	U	B

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *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	20	MDL	390	PQL	ug/Kg	U	B

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *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	32	J	19	MDL	380	PQL	ug/Kg	U	B

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *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	23	J	18	MDL	370	PQL	ug/Kg	U	B

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	U	B

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *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	22	J	22	MDL	430	PQL	ug/Kg	U	B

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	19	MDL	390	PQL	ug/Kg	U	B

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *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	21	J	19	MDL	370	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *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	48	J	19	MDL	390	PQL	ug/Kg	U	B

Method Category: SVOA

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

Sample ID: EB20-SA5B-011311 *Collected:* 1/13/2011 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	0.27	J	0.058	MDL	1.2	PQL	ug/L	U	B
Diethylphthalate	0.15	J	0.058	MDL	1.2	PQL	ug/L	J	Z
Di-n-butylphthalate	0.62	J	0.058	MDL	1.2	PQL	ug/L	J	Z
NAPHTHALENE	0.059		0.012	MDL	0.058	PQL	ug/L	U	B
N-NITROSODIMETHYLAMINE	0.012	U	0.012	MDL	0.058	PQL	ug/L	UJ	L

Sample ID: EB21-SA5B-011311 *Collected:* 1/13/2011 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
Diethylphthalate	0.15	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.57	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.029	J	0.010	MDL	0.051	PQL	ug/L	U	B
N-NITROSODIMETHYLAMINE	0.010	U	0.010	MDL	0.051	PQL	ug/L	UJ	L

Method Category: SVOA

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

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *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(G,H,I)PERYLENE	1.5	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	7.8	MDL	24	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.87	MDL	2.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.4	J	0.94	MDL	2.4	PQL	ug/Kg	J	Z
CHRYSENE	0.93	J	0.47	MDL	2.4	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.94	MDL	2.4	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.94	MDL	2.4	PQL	ug/Kg	J	Z
PHENANTHRENE	1.2	J	0.94	MDL	2.4	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	8.9	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-074-SA5B-SB-7.0-8.0 *Collected:* 1/13/2011 11:16:00 *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	8.8	J	7.1	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *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	8.3	J	6.8	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	8.0	J	6.6	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	8.0	J	6.5	MDL	19	PQL	ug/Kg	U	B

Sample ID: SL-121-SA5B-SB-9.0-10 *Collected:* 1/13/2011 10:27:00 *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	9.8	J	7.8	MDL	23	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	8.7	J	6.7	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-301-SA5B-SB-7.5-8.5 *Collected:* 1/13/2011 9:48:00 *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	8.6	J	7.0	MDL	21	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-073-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 12:31:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.57	J	0.27	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-074-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 11:11:00 *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	0.63	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *Analysis Type:* RES *Dilution:* 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.70	J	0.28	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.09	MDL	4.6	PQL	ug/Kg	U	B

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* RES *Dilution:* 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.91	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *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	0.77	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-122-SA5B-SB-2.0-3.0 *Collected:* 1/13/2011 1:39:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.28	MDL	4.7	PQL	ug/Kg	U	B

Sample ID: SL-301-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 9:45:00 *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	0.45	J	0.24	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Ilogical 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: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: PrepDE060_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE060

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE060 **Laboratory: LL**
EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB20-SA5B-011311 (RES)	Sampling To Analysis	142.00	24.00	HOURS	J (all detects)
EB21-SA5B-011311 (RES)		145.00	24.00	HOURS	R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01908AB221920	1/21/2011 7:20:00 PM	PHOSPHORUS	1.36 mg/Kg	SED-009-SIV-SD-0.0-0.5 SED-028-SIV-SD-0.0-0.5 SL-073-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-7.0-8.0 SL-119-SA5B-SB-3.0-4.0 SL-120-SA5B-SB-3.0-4.0 SL-121-SA5B-SB-4.0-5.0 SL-121-SA5B-SB-9.0-10 SL-122-SA5B-SB-2.0-3.0 SL-301-SA5B-SB-4.0-5.0 SL-301-SA5B-SB-7.5-8.5

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19197AB240253A	1/22/2011 2:53:00 AM	MCPP	97 ug/Kg	SED-009-SIV-SD-0.0-0.5 SED-028-SIV-SD-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB50B211951A	1/17/2011 7:51:00 PM	METHYLENE CHLORIDE TOLUENE	0.76 ug/Kg 0.32 ug/Kg	SL-073-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-4.0-5.0 SL-119-SA5B-SB-3.0-4.0 SL-120-SA5B-SB-3.0-4.0 SL-121-SA5B-SB-4.0-5.0 SL-122-SA5B-SB-2.0-3.0 SL-301-SA5B-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-073-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.57 ug/Kg	4.4U ug/Kg
SL-074-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.63 ug/Kg	3.9U ug/Kg
SL-074-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.08 ug/Kg	3.9U ug/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	0.70 ug/Kg	4.6U ug/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	TOLUENE	0.1 ug/Kg	4.6U ug/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	0.91 ug/Kg	4.3U ug/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	TOLUENE	0.1 ug/Kg	4.3U ug/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.77 ug/Kg	3.9U ug/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	3.9U ug/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	4.7U ug/Kg
SL-301-SA5B-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.45 ug/Kg	3.9U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA01B262110	1/21/2011 9:10:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	SED-009-SIV-SD-0.0-0.5 SED-026-SIV-SD-0.0-0.5 SL-073-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-7.0-8.0 SL-119-SA5B-SB-3.0-4.0 SL-120-SA5B-SB-3.0-4.0 SL-121-SA5B-SB-4.0-5.0 SL-121-SA5B-SB-9.0-10 SL-122-SA5B-SB-2.0-3.0 SL-301-SA5B-SB-4.0-5.0 SL-301-SA5B-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
SED-009-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	39 ug/Kg	440U ug/Kg
SED-028-SIV-SD-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	35 ug/Kg	470U ug/Kg
SL-073-SA5B-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	38 ug/Kg	380U ug/Kg
SL-074-SA5B-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	27 ug/Kg	390U ug/Kg
SL-074-SA5B-SB-7.0-8.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	21 ug/Kg	390U ug/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	32 ug/Kg	380U ug/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	23 ug/Kg	370U ug/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	20 ug/Kg	360U ug/Kg
SL-121-SA5B-SB-9.0-10(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	22 ug/Kg	430U ug/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	30 ug/Kg	390U ug/Kg
SL-301-SA5B-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	21 ug/Kg	370U ug/Kg
SL-301-SA5B-SB-7.5-8.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	48 ug/Kg	390U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWD01B262021	1/20/2011 8:21:00 PM	1-METHYLNAPHTHALENE	0.032 ug/L	EB20-SA5B-011311
		2-METHYLNAPHTHALENE	0.054 ug/L	EB21-SA5B-011311
		ACENAPHTHENE	0.035 ug/L	
		ANTHRACENE	0.014 ug/L	
		BENZO(A)ANTHRACENE	0.017 ug/L	
		BENZO(A)PYRENE	0.014 ug/L	
		BENZO(B)FLUORANTHENE	0.017 ug/L	
		BENZO(G,H,I)PERYLENE	0.016 ug/L	
		BENZO(K)FLUORANTHENE	0.020 ug/L	
		BIS(2-ETHYLHEXYL)PHTHALATE	0.094 ug/L	
		CHRYSENE	0.020 ug/L	
		DIBENZO(A,H)ANTHRACENE	0.015 ug/L	
		Di-n-butylphthalate	0.057 ug/L	
		FLUORANTHENE	0.022 ug/L	
		FLUORENE	0.038 ug/L	
		INDENO(1,2,3-CD)PYRENE	0.016 ug/L	
		NAPHTHALENE	0.35 ug/L	
		PHENANTHRENE	0.046 ug/L	
		PYRENE	0.017 ug/L	

Method Blank Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_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
EB20-SA5B-011311(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.27 ug/L	1.2U ug/L
EB20-SA5B-011311(RES)	NAPHTHALENE	0.059 ug/L	0.059U ug/L
EB21-SA5B-011311(RES)	NAPHTHALENE	0.029 ug/L	0.051U ug/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB02B260832	1/25/2011 8:32:00 AM	Di-n-octylphthalate	7.7 ug/Kg	SED-009-SIV-SD-0.0-0.5 SED-028-SIV-SD-0.0-0.5 SL-073-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-4.0-5.0 SL-074-SA5B-SB-7.0-8.0 SL-119-SA5B-SB-3.0-4.0 SL-120-SA5B-SB-3.0-4.0 SL-121-SA5B-SB-4.0-5.0 SL-121-SA5B-SB-9.0-10 SL-122-SA5B-SB-2.0-3.0 SL-301-SA5B-SB-4.0-5.0 SL-301-SA5B-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-074-SA5B-SB-4.0-5.0(RES)	Di-n-octylphthalate	8.9 ug/Kg	21U ug/Kg
SL-074-SA5B-SB-7.0-8.0(RES)	Di-n-octylphthalate	8.8 ug/Kg	21U ug/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	Di-n-octylphthalate	8.3 ug/Kg	20U ug/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	Di-n-octylphthalate	8.0 ug/Kg	20U ug/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	Di-n-octylphthalate	8.0 ug/Kg	19U ug/Kg
SL-121-SA5B-SB-9.0-10(RES)	Di-n-octylphthalate	9.8 ug/Kg	23U ug/Kg
SL-301-SA5B-SB-4.0-5.0(RES)	Di-n-octylphthalate	8.7 ug/Kg	20U ug/Kg
SL-301-SA5B-SB-7.5-8.5(RES)	Di-n-octylphthalate	8.6 ug/Kg	21U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE060 | Laboratory: LL

EDD Filename: DE060_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-073-SA5B-SB-4.0-5.0MS SL-073-SA5B-SB-4.0-5.0MSD (SL-073-SA5B-SB-4.0-5.0)	BENZIDINE	27	33	35.00-141.00	-	BENZIDINE	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
SED-028-SIV-SD-0.0-0.5MS (SED-028-SIV-SD-0.0-0.5 SL-122-SA5B-SB-2.0-3.0)	FLUORIDE	79	-	80.00-120.00	-	FLUORIDE	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
SED-009-SIV-SD-0.0-0.5MSD (SED-009-SIV-SD-0.0-0.5)	2,4,5-T 2,4-D DICAMBA	- - -	- - 159	25.00-132.00 28.00-161.00 33.00-120.00	47 (35.00) 45 (35.00) -	2,4,5-T 2,4-D DICAMBA	J(all detects)
SED-009-SIV-SD-0.0-0.5MS SED-009-SIV-SD-0.0-0.5MSD (SED-009-SIV-SD-0.0-0.5)	2,4-DB MCPP	- 0	0 0	20.00-170.00 16.00-174.00	200 (50.00) -	2,4-DB MCPP	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SED-028-SIV-SD-0.0-0.5DUP (SED-028-SIV-SD-0.0-0.5 SL -122-SA5B-SB-2.0-3.0)	FLUORIDE	31	20.00	No Qual OK by difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P01713CY220905 (EB20-SA5B-011311 EB21-SA5B-011311)	MERCURY	-	89	90.00-115.00	-	MERCURY	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
P7WDLCSQ262054 P7WDLCSY262127 (EB20-SA5B-011311 EB21-SA5B-011311)	BENZO(A)PYRENE BENZO(K)FLUORANTHENE INDENO(1,2,3-CD)PYRENE	117 126 -	117 124 126	64.00-115.00 72.00-122.00 69.00-124.00	- - -	BENZO(A)PYRENE BENZO(K)FLUORANTHENE INDENO(1,2,3-CD)PYRENE	J(all detects)
P7WDLCSQ262054 P7WDLCSY262127 (EB20-SA5B-011311 EB21-SA5B-011311)	N-NITROSODIMETHYLAMINE	63	63	70.00-130.00	-	N-NITROSODIMETHYLAMINE	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
P8WALCSY260812 (EB20-SA5B-011311 EB21-SA5B-011311)	BENZOIC ACID	-	-	10.00-69.00	52 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10186AQ242213A (EB20-SA5B-011311 EB21-SA5B-011311)	AROCLOR 1260	136	-	56.00-135.00	-	AROCLOR 1242, 1248, 1254, 1260	J(all detects)
P10186AQ242308A P10186AY242250A (EB20-SA5B-011311 EB21-SA5B-011311)	Aroclor 5442	44	46	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_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
P01926AQ221548A (SED-009-SIV-SD-0.0-0.5 SED -028-SIV-SD-0.0-0.5 SL -073-SA5B-SB-4.0-5.0 SL -074-SA5B-SB-4.0-5.0 SL -074-SA5B-SB-7.0-8.0 SL -119-SA5B-SB-3.0-4.0 SL -120-SA5B-SB-3.0-4.0 SL -121-SA5B-SB-4.0-5.0 SL -121-SA5B-SB-9.0-10 SL -122-SA5B-SB-2.0-3.0 SL -301-SA5B-SB-4.0-5.0 SL -301-SA5B-SB-7.5-8.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10170AQ241623A P10170AY241604A (SED-009-SIV-SD-0.0-0.5 SED -028-SIV-SD-0.0-0.5 SL -073-SA5B-SB-4.0-5.0 SL -074-SA5B-SB-4.0-5.0 SL -074-SA5B-SB-7.0-8.0 SL -119-SA5B-SB-3.0-4.0 SL -120-SA5B-SB-3.0-4.0 SL -121-SA5B-SB-4.0-5.0 SL -121-SA5B-SB-9.0-10 SL -122-SA5B-SB-2.0-3.0 SL -301-SA5B-SB-4.0-5.0 SL -301-SA5B-SB-7.5-8.5)	Aroclor 5442	67	65	75.00-125.00	-	Aroclor 5432, 5442, 5460	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P10197AQ240320A (SED-009-SIV-SD-0.0-0.5 SED -028-SIV-SD-0.0-0.5)	DINOSEB	5	-	10.00-136.00	-	DINOSEB	J(all detects) R(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-009-SIV-SD-0.0-0.5	TETRACHLORO-M-XYLENE	36	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-009-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	146	45.00-120.00	All Target Analytes	J(all detects)
SED-028-SIV-SD-0.0-0.5	DECACHLOROBIPHENYL	152	45.00-120.00	All Target Analytes	J(all detects)
SL-074-SA5B-SB-7.0-8.0	DECACHLOROBIPHENYL	138	45.00-120.00	All Target Analytes	J(all detects)
SL-119-SA5B-SB-3.0-4.0	DECACHLOROBIPHENYL	135	45.00-120.00	All Target Analytes	J(all detects)
SL-120-SA5B-SB-3.0-4.0	DECACHLOROBIPHENYL	131	45.00-120.00	All Target Analytes	J(all detects)
SL-121-SA5B-SB-4.0-5.0	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	J(all detects)
SL-122-SA5B-SB-2.0-3.0	DECACHLOROBIPHENYL	140	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C SIM
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB21-SA5B-011311	Nitrobenzene-d5	131	40.00-130.00	No Affected Compounds	No Qual, One Out

Reporting Limit Outliers

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5B-011311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.2	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.15	1.2	PQL	ug/L	
	Di-n-butylphthalate	J	0.62	1.2	PQL	ug/L	
EB21-SA5B-011311	Diethylphthalate	J	0.15	1.0	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.57	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.029	0.051	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	SODIUM	J	64.0	131	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	13.1	PQL	mg/Kg	
SED-028-SIV-SD-0.0-0.5	SODIUM	J	65.7	138	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	13.8	PQL	mg/Kg	
	Zirconium	J	2.10	6.88	PQL	mg/Kg	
SL-073-SA5B-SB-4.0-5.0	TIN	J	3.41	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.25	5.49	PQL	mg/Kg	
SL-074-SA5B-SB-4.0-5.0	TIN	J	3.00	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.66	5.58	PQL	mg/Kg	
SL-074-SA5B-SB-7.0-8.0	TIN	J	3.21	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.53	5.67	PQL	mg/Kg	
SL-119-SA5B-SB-3.0-4.0	TIN	J	2.82	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.43	5.52	PQL	mg/Kg	
SL-120-SA5B-SB-3.0-4.0	SODIUM	J	106	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.59	10.9	PQL	mg/Kg	
	Zirconium	J	1.69	5.43	PQL	mg/Kg	
SL-121-SA5B-SB-4.0-5.0	SODIUM	J	68.0	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.15	10.7	PQL	mg/Kg	
	Zirconium	J	1.92	5.35	PQL	mg/Kg	
SL-121-SA5B-SB-9.0-10	TIN	J	3.08	12.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.83	6.30	PQL	mg/Kg	
SL-122-SA5B-SB-2.0-3.0	TIN	J	3.33	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.49	5.62	PQL	mg/Kg	
SL-301-SA5B-SB-4.0-5.0	TIN	J	3.01	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.28	5.56	PQL	mg/Kg	
SL-301-SA5B-SB-7.5-8.5	TIN	J	2.48	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.79	5.69	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	ANTIMONY	J	0.118	0.254	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.179	0.508	PQL	mg/Kg	
	SILVER	J	0.0798	0.127	PQL	mg/Kg	
SED-028-SIV-SD-0.0-0.5	SELENIUM	J	0.124	0.555	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0370	0.139	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5B-SB-4.0-5.0	SELENIUM	J	0.149	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0698	0.110	PQL	mg/Kg	
SL-074-SA5B-SB-4.0-5.0	ANTIMONY	J	0.195	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.446	PQL	mg/Kg	
	SILVER	J	0.0588	0.112	PQL	mg/Kg	
SL-074-SA5B-SB-7.0-8.0	SELENIUM	J	0.135	0.454	PQL	mg/Kg	J (all detects)
SL-119-SA5B-SB-3.0-4.0	ANTIMONY	J	0.108	0.225	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0458	0.113	PQL	mg/Kg	
	SELENIUM	J	0.0987	0.450	PQL	mg/Kg	
SL-120-SA5B-SB-3.0-4.0	ANTIMONY	J	0.141	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0802	0.106	PQL	mg/Kg	
	SELENIUM	J	0.121	0.422	PQL	mg/Kg	
	SILVER	J	0.0158	0.106	PQL	mg/Kg	
SL-121-SA5B-SB-4.0-5.0	ANTIMONY	J	0.0839	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0657	0.107	PQL	mg/Kg	
	SELENIUM	J	0.117	0.428	PQL	mg/Kg	
	SILVER	J	0.0157	0.107	PQL	mg/Kg	
SL-121-SA5B-SB-9.0-10	ANTIMONY	J	0.145	0.260	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0697	0.519	PQL	mg/Kg	
SL-122-SA5B-SB-2.0-3.0	ANTIMONY	J	0.185	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.106	0.111	PQL	mg/Kg	
	SELENIUM	J	0.381	0.446	PQL	mg/Kg	
	SILVER	J	0.0181	0.111	PQL	mg/Kg	
SL-301-SA5B-SB-4.0-5.0	ANTIMONY	J	0.152	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0836	0.432	PQL	mg/Kg	
	SILVER	J	0.0540	0.108	PQL	mg/Kg	
SL-301-SA5B-SB-7.5-8.5	ANTIMONY	J	0.0737	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0663	0.114	PQL	mg/Kg	
	SILVER	J	0.106	0.114	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-028-SIV-SD-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.4	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.54	1.2	PQL	mg/Kg	J (all detects)
SL-120-SA5B-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SB-9.0-10	HEXAVALENT CHROMIUM	J	0.49	1.3	PQL	mg/Kg	J (all detects)
SL-122-SA5B-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-301-SA5B-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.25	1.1	PQL	mg/Kg	J (all detects)
SL-301-SA5B-SB-7.5-8.5	HEXAVALENT CHROMIUM	J	0.60	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	MERCURY	J	0.0220	0.127	PQL	mg/Kg	J (all detects)
SED-028-SIV-SD-0.0-0.5	MERCURY	J	0.0904	0.140	PQL	mg/Kg	J (all detects)
SL-073-SA5B-SB-4.0-5.0	MERCURY	J	0.0054	0.107	PQL	mg/Kg	J (all detects)
SL-074-SA5B-SB-7.0-8.0	MERCURY	J	0.0218	0.112	PQL	mg/Kg	J (all detects)
SL-120-SA5B-SB-3.0-4.0	MERCURY	J	0.0050	0.106	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SB-4.0-5.0	MERCURY	J	0.0077	0.105	PQL	mg/Kg	J (all detects)
SL-121-SA5B-SB-9.0-10	MERCURY	J	0.0477	0.126	PQL	mg/Kg	J (all detects)
SL-122-SA5B-SB-2.0-3.0	MERCURY	J	0.0056	0.112	PQL	mg/Kg	J (all detects)
SL-301-SA5B-SB-7.5-8.5	MERCURY	J	0.0056	0.115	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	Aroclor 5460	J	3.0	4.3	PQL	ug/Kg	J (all detects)
SED-028-SIV-SD-0.0-0.5	AROCLOR 1254	J	1.5	2.4	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.57	4.4	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	0.63 0.08	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-119-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE TOLUENE	J J	0.70 0.1	4.6 4.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-120-SA5B-SB-3.0-4.0	METHYLENE CHLORIDE TOLUENE	J J	0.91 0.1	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-121-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	0.77 0.12	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-122-SA5B-SB-2.0-3.0	METHYLENE CHLORIDE	J	1.4	4.7	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.45	3.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	440	PQL	ug/Kg	J (all detects)
SED-028-SIV-SD-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	470	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE060 **Laboratory: LL**

EDD Filename: DE060_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	380	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	26	190	PQL	ug/Kg	
SL-074-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	390	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	390	PQL	ug/Kg	J (all detects)
SL-119-SA5B-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	32	380	PQL	ug/Kg	J (all detects)
SL-120-SA5B-SB-3.0-4.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	370	PQL	ug/Kg	J (all detects)
SL-121-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-121-SA5B-SB-9.0-10	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	430	PQL	ug/Kg	J (all detects)
SL-122-SA5B-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	390	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	BENZO(G,H,I)PERYLENE	J	1.5	2.2	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	11	24	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	2.2	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	2.2	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	2.2	PQL	ug/Kg	
SED-028-SIV-SD-0.0-0.5	BENZO(A)PYRENE	J	1.4	2.4	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.93	2.4	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	2.4	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	2.4	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	2.4	PQL	ug/Kg	
SL-074-SA5B-SB-4.0-5.0	Di-n-octylphthalate	J	8.9	21	PQL	ug/Kg	J (all detects)
SL-074-SA5B-SB-7.0-8.0	Di-n-octylphthalate	J	8.8	21	PQL	ug/Kg	J (all detects)
SL-119-SA5B-SB-3.0-4.0	Di-n-octylphthalate	J	8.3	20	PQL	ug/Kg	J (all detects)
SL-120-SA5B-SB-3.0-4.0	Di-n-octylphthalate	J	8.0	20	PQL	ug/Kg	J (all detects)
SL-121-SA5B-SB-4.0-5.0	Di-n-octylphthalate	J	8.0	19	PQL	ug/Kg	J (all detects)
SL-121-SA5B-SB-9.0-10	Di-n-octylphthalate	J	9.8	23	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SB-4.0-5.0	Di-n-octylphthalate	J	8.7	20	PQL	ug/Kg	J (all detects)
SL-301-SA5B-SB-7.5-8.5	Di-n-octylphthalate	J	8.6	21	PQL	ug/Kg	J (all detects)

LDC #: 25550H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/11
SDG #: DE060 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
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	~~A~~	
III.	Calibration	—	
IV.	Blanks	SW	
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)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	Not performed
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	ND	EB=13, 14

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-073-SA5B-SB-4.0-5.0	11	SED-028-SIV-SD-0.0-0.5	21		31	
2	SL-301-SA5B-SB-4.0-5.0	12	SL-122-SA5B-SB-2.0-3.0	22		32	
3	SL-301-SA5B-SB-7.5-8.5	13	EB20-SA5B-011311	23		33	
4	SL-074-SA5B-SB-4.0-5.0	14	EB21-SA5B-011311	24		34	
5	SL-074-SA5B-SB-7.0-8.0	15		25		35	
6	SL-121-SA5B-SB-4.0-5.0	16		26		36	
7	SL-121-SA5B-SB-9.0-10.0	17		27		37	
8	SL-120-SA5B-SB-30-4.0	18		28		38	
9	SL-119-SA5B-SB-3.0-4.0	19		29		39	
10	SED-009-SIV-SD-0.0-0.5	20		30		40	

Notes:

LDC #: 25550 4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer: ✓

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-14		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

LDC #: 25550H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x ICPMS (2dil)
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12
Sb			0.33	0.33	0.31	0.15	0.074	0.20		0.084	0.15	0.14	0.11	0.12		0.18
Zr			5.1	2.55	1.3	2.3	1.8	1.7	2.5	1.9	1.8	1.7	1.4		2.1	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.

SAMPLE DELIVERY GROUP

DE159

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	TB-052311	6296041	TB	5030B	8015M	III
23-May-2011	TB-052311	6296041	TB	5030B	8260B	III
23-May-2011	TB-052311	6296041	TB	5030B	8260B SIM	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3050B	6010B	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3050B	6020	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3060A	7199	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3550B	8081A	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3550B	8082	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3550B	8151A	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3550B	8270C	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	3550B	8270C SIM	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	Gen Prep	9045M	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	METHOD	300.0	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	METHOD	314.0	III
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296053	N	METHOD	7471A	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3050B	6010B	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3050B	6020	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3060A	7199	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3550B	8081A	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3550B	8082	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3550B	8151A	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3550B	8270C	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	3550B	8270C SIM	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	Gen Prep	9045M	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	METHOD	300.0	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	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
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296052	N	METHOD	7471A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3050B	6010B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3050B	6020	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3060A	7199	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3546	1625C	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8015B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8015M	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8081A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8082	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8151A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8270C	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	3550B	8270C SIM	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	8330	8330A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	Gen Prep	9045M	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	300.0	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	314.0	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	7471A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	8015B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	8015M	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	8315A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296047	N	METHOD	9012B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296048	MS	3060A	7199	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296048	MS	METHOD	300.0	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296048	MS	METHOD	314.0	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296048	MS	METHOD	9012B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3050B	6020	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3546	1625C	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8015B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8015M	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8081A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8082	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8151A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8270C	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	3550B	8270C SIM	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	8330	8330A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	METHOD	7471A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	METHOD	8015B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	METHOD	8015M	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296049	MS	METHOD	8315A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	3050B	6010B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	3050B	6020	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	3060A	7199	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	Gen Prep	9045M	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	METHOD	300.0	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	METHOD	314.0	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	METHOD	7471A	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5DU	6296050	DUP	METHOD	9012B	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	3050B	6010B	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	3050B	6020	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	3060A	7199	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	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
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	3550B	8270C	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	3550B	8270C SIM	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	5035	8260B	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	5035	8260B SIM	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	8330	8330A	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	Gen Prep	9045M	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	METHOD	300.0	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	METHOD	314.0	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296035	N	METHOD	7471A	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0DU	P296035D271535A	DUP	METHOD	314.0	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0DU	P296035D271902A	DUP	METHOD	300.0	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0DU	P296035D292220A	DUP	Gen Prep	9045M	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0MS	P296035R271557A	MS	METHOD	314.0	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0MS	P296035R271916A	MS	METHOD	300.0	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3050B	6010B	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3050B	6020	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3060A	7199	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3546	1625C	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8015B	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8015M	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8081A	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8082	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8151A	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8270C	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	3550B	8270C SIM	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	Gen Prep	9045M	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	300.0	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	314.0	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	6850	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	7471A	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	8015B	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	8015M	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	8315A	III
23-May-2011	DUP05-SA5DN-QC-052311	6296054	FD	METHOD	9012B	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3050B	6010B	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3050B	6020	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3060A	7199	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3546	1625C	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8015B	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8015M	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8081A	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8082	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8151A	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8270C	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	3550B	8270C SIM	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	8330	8330A	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	Gen Prep	9045M	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	300.0	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	314.0	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	7471A	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	8015M	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	8315A	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296051	N	METHOD	9012B	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5DU	P296051D271947B	DUP	METHOD	9012B	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5MS	P296051R271948B	MS	METHOD	9012B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3050B	6010B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3050B	6020	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3060A	7199	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3546	1625C	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3550B	8015B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3550B	8015M	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3550B	8082	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3550B	8270C	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	3550B	8270C SIM	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	5035	8015M	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	5035	8260B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	5035	8260B SIM	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	8330	8330A	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	Gen Prep	9045M	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	300.0	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	314.0	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	6850	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	7471A	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	8015B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	8015M	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	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
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296036	N	METHOD	9012B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0MS	P296036R242146A	MS	METHOD	6850	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3050B	6010B	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3050B	6020	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3060A	7199	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3546	1625C	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8015B	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8015M	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8081A	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8082	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8151A	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8270C	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	3550B	8270C SIM	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	8330	8330A	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	Gen Prep	9045M	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	300.0	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	314.0	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	7471A	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	8015B	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	8015M	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	8315A	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296045	N	METHOD	9012B	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3050B	6010B	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3050B	6020	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3060A	7199	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8015B	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8015M	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8081A	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8082	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8151A	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8270C	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	3550B	8270C SIM	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	8330	8330A	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	Gen Prep	9045M	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	300.0	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	314.0	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	7471A	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	8015B	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	8015M	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	8315A	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296046	N	METHOD	9012B	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3050B	6010B	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3050B	6020	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3060A	7199	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3546	1625C	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8015B	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8015M	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8081A	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8082	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8151A	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8270C	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
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	3550B	8270C SIM	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	8330	8330A	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	Gen Prep	9045M	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	300.0	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	314.0	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	7471A	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	8015B	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	8015M	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	8315A	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296043	N	METHOD	9012B	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3050B	6010B	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3050B	6020	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3060A	7199	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3546	1625C	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8015B	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8015M	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8081A	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8082	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8151A	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8270C	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	3550B	8270C SIM	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	8330	8330A	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	Gen Prep	9045M	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	300.0	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	314.0	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	6850	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	7471A	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	8015B	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	8015M	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	8315A	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296042	N	METHOD	9012B	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3050B	6010B	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3050B	6020	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3060A	7199	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3550B	8081A	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3550B	8082	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3550B	8151A	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3550B	8270C	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	3550B	8270C SIM	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	Gen Prep	9045M	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	METHOD	300.0	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	METHOD	314.0	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296044	N	METHOD	7471A	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	3050B	6010B	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	3050B	6020	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	3060A	7199	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	3550B	8082	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	3550B	8270C	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	3550B	8270C SIM	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	5035	8260B	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	5035	8260B SIM	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	Gen Prep	9045M	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	METHOD	300.0	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	METHOD	314.0	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296037	N	METHOD	7471A	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	3050B	6010B	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	3050B	6020	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	3060A	7199	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	3550B	8082	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	3550B	8270C	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	3550B	8270C SIM	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	8330	8330A	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	Gen Prep	9045M	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	METHOD	300.0	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	METHOD	314.0	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296038	N	METHOD	7471A	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3005A	6010B	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3020A	6020	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3510C	8015B	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3510C	8015M	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3510C	8081A	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3510C	8082	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3510C	8270C	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3510C	8270C SIM	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	3520C	1625C	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	8330	8330A	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	Gen Prep	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	Gen Prep	314.0	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	Gen Prep	7199	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	Gen Prep	9040B	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	METHOD	7470A	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	METHOD	8151A	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	METHOD	8315A	III
23-May-2011	EB05-SA5DN-SS-052311	6296055	EB	METHOD	9012B	III
23-May-2011	SED-035-SIV-SD	6296056	N	3050B	6010B	III
23-May-2011	SED-035-SIV-SD	6296056	N	3050B	6020	III
23-May-2011	SED-035-SIV-SD	6296056	N	3060A	7199	III
23-May-2011	SED-035-SIV-SD	6296056	N	3550B	8081A	III
23-May-2011	SED-035-SIV-SD	6296056	N	3550B	8082	III
23-May-2011	SED-035-SIV-SD	6296056	N	3550B	8151A	III
23-May-2011	SED-035-SIV-SD	6296056	N	3550B	8270C	III
23-May-2011	SED-035-SIV-SD	6296056	N	3550B	8270C SIM	III
23-May-2011	SED-035-SIV-SD	6296056	N	Gen Prep	9045M	III
23-May-2011	SED-035-SIV-SD	6296056	N	METHOD	300.0	III
23-May-2011	SED-035-SIV-SD	6296056	N	METHOD	314.0	III
23-May-2011	SED-035-SIV-SD	6296056	N	METHOD	7471A	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	3050B	6010B	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	3050B	6020	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	3060A	7199	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	3550B	8082	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	3550B	8270C	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	3550B	8270C SIM	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	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
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	5035	8260B SIM	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	Gen Prep	9045M	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	METHOD	300.0	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	METHOD	314.0	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	METHOD	6850	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296039	N	METHOD	7471A	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	3050B	6010B	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	3050B	6020	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	3060A	7199	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	3550B	8082	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	3550B	8270C	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	3550B	8270C SIM	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	Gen Prep	9045M	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	METHOD	300.0	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	METHOD	314.0	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	N	METHOD	6850	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296040	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.92	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
Nitrate-NO3	1.3	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	5.6		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

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	4.7		0.92	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	3.4		0.91	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.91	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	2.9		0.92	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 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
Nitrate-NO3	1.1	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.14	J	1.02	MDL	5.75	PQL	mg/Kg	J	Z
CALCIUM	9310		7.05	MDL	23.0	PQL	mg/Kg	J	E, FD
PHOSPHORUS	333		0.644	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	4320		20.7	MDL	57.5	PQL	mg/Kg	J	Q
TIN	3.12	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	8220		7.09	MDL	23.1	PQL	mg/Kg	J	E
PHOSPHORUS	356		0.648	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	1580		20.8	MDL	57.9	PQL	mg/Kg	J	Q
SODIUM	113	J	43.2	MDL	116	PQL	mg/Kg	J	Z
TIN	2.36	J	1.16	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.91	J	0.972	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.11	J	1.00	MDL	5.63	PQL	mg/Kg	J	Z
CALCIUM	11500		6.90	MDL	22.5	PQL	mg/Kg	J	E
PHOSPHORUS	332		0.631	MDL	11.3	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4580		20.3	MDL	56.3	PQL	mg/Kg	J	Q
TIN	3.06	J	1.13	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	12200		6.83	MDL	22.3	PQL	mg/Kg	J	E
PHOSPHORUS	389		0.624	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	4340		20.0	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.88	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	12200		6.80	MDL	22.2	PQL	mg/Kg	J	E
PHOSPHORUS	454		0.621	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	4510		20.0	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.96	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.80	J	1.00	MDL	5.63	PQL	mg/Kg	J	Z
CALCIUM	11000		6.90	MDL	22.5	PQL	mg/Kg	J	E
PHOSPHORUS	297		0.631	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	4540		20.3	MDL	56.3	PQL	mg/Kg	J	Q
TIN	3.04	J	1.13	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
BORON	1.71	J	1.03	MDL	5.76	PQL	mg/Kg	J	Z
CALCIUM	9700		7.07	MDL	23.1	PQL	mg/Kg	J	E
PHOSPHORUS	239		0.645	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	4470		20.7	MDL	57.6	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
TIN	2.96	J	1.15	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.82	J	1.00	MDL	5.63	PQL	mg/Kg	J	Z
CALCIUM	18500		6.90	MDL	22.5	PQL	mg/Kg	J	E, FD
PHOSPHORUS	357		0.630	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	4400		20.3	MDL	56.3	PQL	mg/Kg	J	Q
TIN	3.22	J	1.13	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.70	J	0.977	MDL	5.49	PQL	mg/Kg	J	Z
CALCIUM	49000		6.73	MDL	22.0	PQL	mg/Kg	J	E
PHOSPHORUS	316		0.615	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	4250		19.8	MDL	54.9	PQL	mg/Kg	J	Q
TIN	2.79	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.42	J	0.999	MDL	5.61	PQL	mg/Kg	J	Z
CALCIUM	7210		6.88	MDL	22.4	PQL	mg/Kg	J	E
PHOSPHORUS	335		0.629	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	5180		20.2	MDL	56.1	PQL	mg/Kg	J	Q
TIN	3.06	J	1.12	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	9360		6.82	MDL	22.2	PQL	mg/Kg	J	E
PHOSPHORUS	445		0.623	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	4050		20.0	MDL	55.6	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.88	J	1.11	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	10300		6.81	MDL	22.2	PQL	mg/Kg	J	E
PHOSPHORUS	226		0.622	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3230		20.0	MDL	55.5	PQL	mg/Kg	J	Q
TIN	3.00	J	1.11	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.75	J	0.933	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	42600		6.92	MDL	22.6	PQL	mg/Kg	J	E
PHOSPHORUS	387		0.632	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	2500		20.3	MDL	56.4	PQL	mg/Kg	J	Q
TIN	2.78	J	1.13	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.70	J	0.948	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.00	J	0.983	MDL	5.52	PQL	mg/Kg	J	Z
CALCIUM	7380		6.77	MDL	22.1	PQL	mg/Kg	J	E
PHOSPHORUS	313		0.619	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3490		19.9	MDL	55.2	PQL	mg/Kg	J	Q
TIN	2.78	J	1.10	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7150		6.44	MDL	21.0	PQL	mg/Kg	J	E
PHOSPHORUS	291		0.588	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2320		18.9	MDL	52.5	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.66	J	1.05	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.95	J	0.883	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	33200		6.52	MDL	21.3	PQL	mg/Kg	J	E
PHOSPHORUS	224		0.596	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2100		19.1	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.79	J	1.06	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	4.74	J	0.893	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4530		6.68	MDL	21.8	PQL	mg/Kg	J	E
PHOSPHORUS	253		0.610	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2650		19.6	MDL	54.5	PQL	mg/Kg	J	Q
TIN	3.00	J	1.09	MDL	10.9	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA10 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	145		0.308	MDL	1.14	PQL	mg/Kg	J	E, E

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.457		0.0684	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	8.68		0.0911	MDL	0.456	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.07		0.0182	MDL	0.114	PQL	mg/Kg	J	E
CADMIUM	0.573		0.0456	MDL	0.114	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	25.7		0.0752	MDL	0.456	PQL	mg/Kg	J	Q, E
NICKEL	30.8		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E
SILVER	0.0939	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.494		0.0342	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	102		0.0251	MDL	0.114	PQL	mg/Kg	J	E

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA6 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	195		1.60	MDL	8.55	PQL	mg/Kg	J	A

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	29.7		0.137	MDL	0.456	PQL	mg/Kg	J	A
COBALT	9.39		0.0228	MDL	0.114	PQL	mg/Kg	J	E, A

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0456	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.32		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.2		0.123	MDL	0.454	PQL	mg/Kg	J	E, E

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.306		0.0681	MDL	0.227	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.05		0.0908	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.336		0.0182	MDL	0.113	PQL	mg/Kg	J	E
CADMIUM	0.512		0.0454	MDL	0.113	PQL	mg/Kg	J	Q, E
COPPER	9.14		0.0749	MDL	0.454	PQL	mg/Kg	J	Q, E
NICKEL	9.45		0.113	MDL	0.454	PQL	mg/Kg	J	Q, E
SILVER	0.220		0.0136	MDL	0.113	PQL	mg/Kg	J	Q
THALLIUM	0.185		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	24.0		0.0250	MDL	0.113	PQL	mg/Kg	J	E
ZINC	146		0.635	MDL	3.40	PQL	mg/Kg	J	A

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	10.8		0.136	MDL	0.454	PQL	mg/Kg	J	A
COBALT	2.74		0.0227	MDL	0.113	PQL	mg/Kg	J	E, A

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0454	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.11		0.0567	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA10 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.298	MDL	1.10	PQL	mg/Kg	J	E, E

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.435		0.0663	MDL	0.221	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.24		0.0884	MDL	0.442	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.14		0.0177	MDL	0.110	PQL	mg/Kg	J	E
CADMIUM	0.421		0.0442	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	23.0		0.0729	MDL	0.442	PQL	mg/Kg	J	Q, E
NICKEL	31.2		0.110	MDL	0.442	PQL	mg/Kg	J	Q, E
SILVER	0.0755	J	0.0133	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.503		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	100		0.0243	MDL	0.110	PQL	mg/Kg	J	E
ZINC	106		0.619	MDL	3.31	PQL	mg/Kg	J	A

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	29.7		0.133	MDL	0.442	PQL	mg/Kg	J	A
COBALT	11.2		0.0221	MDL	0.110	PQL	mg/Kg	J	E, A

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.702		0.0552	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	159		0.119	MDL	0.441	PQL	mg/Kg	J	E, E

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.300		0.0662	MDL	0.221	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.68		0.0882	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.833		0.0176	MDL	0.110	PQL	mg/Kg	J	E
CADMIUM	0.318		0.0441	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	17.6		0.0728	MDL	0.441	PQL	mg/Kg	J	Q, E
NICKEL	21.8		0.110	MDL	0.441	PQL	mg/Kg	J	Q, E
SILVER	0.0617	J	0.0132	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0331	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	74.2		0.0243	MDL	0.110	PQL	mg/Kg	J	E
ZINC	88.4		0.618	MDL	3.31	PQL	mg/Kg	J	A

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	28.9		0.132	MDL	0.441	PQL	mg/Kg	J	A
COBALT	10.3		0.0221	MDL	0.110	PQL	mg/Kg	J	E, A

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0441	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.509		0.0551	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.117	MDL	0.435	PQL	mg/Kg	J	E, E

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
ANTIMONY	0.365		0.0652	MDL	0.217	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
ARSENIC	7.77		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.880		0.0174	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.391		0.0435	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	24.4		0.0718	MDL	0.435	PQL	mg/Kg	J	Q, E
NICKEL	25.5		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E
SILVER	0.0786	J	0.0130	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.449		0.0326	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	90.3		0.0239	MDL	0.109	PQL	mg/Kg	J	E
ZINC	133		0.609	MDL	3.26	PQL	mg/Kg	J	A

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
CHROMIUM	25.4		0.130	MDL	0.435	PQL	mg/Kg	J	A
COBALT	9.01		0.0217	MDL	0.109	PQL	mg/Kg	J	E, A

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0435	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.929		0.0544	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA10 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.307	MDL	1.14	PQL	mg/Kg	J	E, E

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.383		0.0682	MDL	0.227	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.55		0.0910	MDL	0.455	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.15		0.0182	MDL	0.114	PQL	mg/Kg	J	E
CADMIUM	0.417		0.0455	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	22.0		0.0751	MDL	0.455	PQL	mg/Kg	J	Q, E
NICKEL	29.4		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E
SILVER	0.0757	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.497		0.0341	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	98.3		0.0250	MDL	0.114	PQL	mg/Kg	J	E
ZINC	96.9		0.637	MDL	3.41	PQL	mg/Kg	J	A

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	32.6		0.136	MDL	0.455	PQL	mg/Kg	J	A
COBALT	10.2		0.0227	MDL	0.114	PQL	mg/Kg	J	E, A

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0455	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.636		0.0569	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	204		0.123	MDL	0.457	PQL	mg/Kg	J	E, E

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.351		0.0685	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.36		0.0913	MDL	0.457	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.02		0.0183	MDL	0.114	PQL	mg/Kg	J	E
CADMIUM	0.458		0.0457	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	21.0		0.0753	MDL	0.457	PQL	mg/Kg	J	Q, E
NICKEL	28.4		0.114	MDL	0.457	PQL	mg/Kg	J	Q, E
SILVER	0.0740	J	0.0137	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.463		0.0342	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	96.6		0.0251	MDL	0.114	PQL	mg/Kg	J	E
ZINC	89.9		0.639	MDL	3.42	PQL	mg/Kg	J	A

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	29.2		0.137	MDL	0.457	PQL	mg/Kg	J	A
COBALT	9.04		0.0228	MDL	0.114	PQL	mg/Kg	J	E, A

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0457	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.632		0.0571	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	199		0.123	MDL	0.455	PQL	mg/Kg	J	E, E

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.510		0.0682	MDL	0.227	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.16		0.0909	MDL	0.455	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.01		0.0182	MDL	0.114	PQL	mg/Kg	J	E
CADMIUM	0.727		0.0455	MDL	0.114	PQL	mg/Kg	J	Q, E
COPPER	22.8		0.0750	MDL	0.455	PQL	mg/Kg	J	Q, E
NICKEL	28.9		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E
SILVER	0.0712	J	0.0136	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.491		0.0341	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	91.4		0.0250	MDL	0.114	PQL	mg/Kg	J	E

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	30.1		0.136	MDL	0.455	PQL	mg/Kg	J	A
COBALT	13.0		0.0227	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	162		0.637	MDL	3.41	PQL	mg/Kg	J	A

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.232	J	0.0455	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.50		0.0568	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:00:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	183		0.121	MDL	0.448	PQL	mg/Kg	J	E, E

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.353		0.0672	MDL	0.224	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-023-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 10:00:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.86		0.0895	MDL	0.448	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.01		0.0179	MDL	0.112	PQL	mg/Kg	J	E
CADMIUM	0.329		0.0448	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	20.1		0.0739	MDL	0.448	PQL	mg/Kg	J	Q, E
NICKEL	26.3		0.112	MDL	0.448	PQL	mg/Kg	J	Q, E
SILVER	0.0701	J	0.0134	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.463		0.0336	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	87.2		0.0246	MDL	0.112	PQL	mg/Kg	J	E
ZINC	86.5		0.627	MDL	3.36	PQL	mg/Kg	J	A

Sample ID: SL-023-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 10:00:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	33.1		0.134	MDL	0.448	PQL	mg/Kg	J	A
COBALT	10.1		0.0224	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-023-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 10:00:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0791	J	0.0448	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 10:00:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.562		0.0560	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-052-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 9:00:00 ***Analysis Type:*** REA10 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.121	MDL	0.449	PQL	mg/Kg	J	E, E

Sample ID: SL-052-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 9:00:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.386		0.0673	MDL	0.224	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: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.16		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.09		0.0180	MDL	0.112	PQL	mg/Kg	J	E
CADMIUM	0.491		0.0449	MDL	0.112	PQL	mg/Kg	J	Q, E
COPPER	23.4		0.0741	MDL	0.449	PQL	mg/Kg	J	Q, E
NICKEL	29.8		0.112	MDL	0.449	PQL	mg/Kg	J	Q, E
SILVER	0.0774	J	0.0135	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.506		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	97.1		0.0247	MDL	0.112	PQL	mg/Kg	J	E
ZINC	140		0.629	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	30.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	9.27		0.0224	MDL	0.112	PQL	mg/Kg	J	E, A

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0449	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.649		0.0561	MDL	0.112	PQL	mg/Kg	J	Q, E

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	187		0.118	MDL	0.436	PQL	mg/Kg	J	E, E

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.351		0.0655	MDL	0.218	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.65		0.0873	MDL	0.436	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.913		0.0175	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.461		0.0436	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	20.4		0.0720	MDL	0.436	PQL	mg/Kg	J	Q, E
NICKEL	24.7		0.109	MDL	0.436	PQL	mg/Kg	J	Q, E
SILVER	0.0515	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.425		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	82.1		0.0240	MDL	0.109	PQL	mg/Kg	J	E
ZINC	108		0.611	MDL	3.27	PQL	mg/Kg	J	A

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	26.4		0.131	MDL	0.436	PQL	mg/Kg	J	A
COBALT	10.6		0.0218	MDL	0.109	PQL	mg/Kg	J	E, A

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0436	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.907		0.0545	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	170		0.122	MDL	0.453	PQL	mg/Kg	J	E, E

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.0679	MDL	0.226	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-075-SA5DN-SB-4.0-5.0 ***Collected:*** 5/23/2011 3:40:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.08		0.0906	MDL	0.453	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.00		0.0181	MDL	0.113	PQL	mg/Kg	J	E
CADMIUM	0.490		0.0453	MDL	0.113	PQL	mg/Kg	J	Q, E
COPPER	16.8		0.0747	MDL	0.453	PQL	mg/Kg	J	Q, E
NICKEL	28.7		0.113	MDL	0.453	PQL	mg/Kg	J	Q, E
SILVER	0.0595	J	0.0136	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.477		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	77.2		0.0249	MDL	0.113	PQL	mg/Kg	J	E
ZINC	76.6		0.634	MDL	3.40	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5DN-SB-4.0-5.0 ***Collected:*** 5/23/2011 3:40:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	26.8		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	8.52		0.0226	MDL	0.113	PQL	mg/Kg	J	E, A

Sample ID: SL-075-SA5DN-SB-4.0-5.0 ***Collected:*** 5/23/2011 3:40:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.224		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-075-SA5DN-SB-9.0-10.0 ***Collected:*** 5/23/2011 3:45:00 ***Analysis Type:*** REA10 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.120	MDL	0.443	PQL	mg/Kg	J	E, E

Sample ID: SL-075-SA5DN-SB-9.0-10.0 ***Collected:*** 5/23/2011 3:45:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.194	J	0.0664	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	7.16		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.645		0.0177	MDL	0.111	PQL	mg/Kg	J	E
CADMIUM	0.484		0.0443	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	13.2		0.0730	MDL	0.443	PQL	mg/Kg	J	Q, E
NICKEL	24.4		0.111	MDL	0.443	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0669	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.379		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	59.4		0.0243	MDL	0.111	PQL	mg/Kg	J	E
ZINC	62.8		0.620	MDL	3.32	PQL	mg/Kg	J	A

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	20.7		0.133	MDL	0.443	PQL	mg/Kg	J	A
COBALT	8.19		0.0221	MDL	0.111	PQL	mg/Kg	J	E, A

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0459	J	0.0443	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.782		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* REA10 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	217		0.295	MDL	1.09	PQL	mg/Kg	J	E, E

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.331		0.0656	MDL	0.219	PQL	mg/Kg	J	Q
ARSENIC	8.31		0.0875	MDL	0.438	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.04		0.0175	MDL	0.109	PQL	mg/Kg	J	E
CADMIUM	0.448		0.0438	MDL	0.109	PQL	mg/Kg	J	Q, E
COPPER	18.2		0.0722	MDL	0.438	PQL	mg/Kg	J	Q, E
NICKEL	29.5		0.109	MDL	0.438	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0729	J	0.0131	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.478		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	93.1		0.0241	MDL	0.109	PQL	mg/Kg	J	E
ZINC	86.3		0.613	MDL	3.28	PQL	mg/Kg	J	A

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	28.3		0.131	MDL	0.438	PQL	mg/Kg	J	A
COBALT	14.7		0.0219	MDL	0.109	PQL	mg/Kg	J	E, A

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.579		0.0547	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.116	MDL	0.429	PQL	mg/Kg	J	E, E

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.179	J	0.0643	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	6.69		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.735		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.162		0.0429	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	10.8		0.0707	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	17.7		0.107	MDL	0.429	PQL	mg/Kg	J	Q, E
SILVER	0.0560	J	0.0129	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.337		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	55.1		0.0236	MDL	0.107	PQL	mg/Kg	J	E
ZINC	63.5		0.600	MDL	3.21	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	18.7		0.129	MDL	0.429	PQL	mg/Kg	J	A
COBALT	6.21		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.418		0.0536	MDL	0.107	PQL	mg/Kg	J	Q, E

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.119	MDL	0.442	PQL	mg/Kg	J	E, E

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.259		0.0664	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	9.95		0.0885	MDL	0.442	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.867		0.0177	MDL	0.111	PQL	mg/Kg	J	E
CADMIUM	0.153		0.0442	MDL	0.111	PQL	mg/Kg	J	Q, E
COPPER	14.0		0.0730	MDL	0.442	PQL	mg/Kg	J	Q, E
NICKEL	20.0		0.111	MDL	0.442	PQL	mg/Kg	J	Q, E
SILVER	0.0345	J	0.0133	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.405		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	77.3		0.0243	MDL	0.111	PQL	mg/Kg	J	E
ZINC	70.2		0.619	MDL	3.32	PQL	mg/Kg	J	A

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	20.7		0.133	MDL	0.442	PQL	mg/Kg	J	A
COBALT	4.97		0.0221	MDL	0.111	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0788	J	0.0442	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.605		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA10 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	176		0.116	MDL	0.431	PQL	mg/Kg	J	E, E

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.370		0.0647	MDL	0.216	PQL	mg/Kg	J	Q
ARSENIC	12.3		0.0863	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.14		0.0173	MDL	0.108	PQL	mg/Kg	J	E
CADMIUM	0.330		0.0431	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	20.1		0.0712	MDL	0.431	PQL	mg/Kg	J	Q, E
NICKEL	29.9		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E
SILVER	0.0750	J	0.0129	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.440		0.0324	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	90.3		0.0237	MDL	0.108	PQL	mg/Kg	J	E
ZINC	79.6		0.604	MDL	3.24	PQL	mg/Kg	J	A

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	22.7		0.129	MDL	0.431	PQL	mg/Kg	J	A
COBALT	9.24		0.0216	MDL	0.108	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0574	J	0.0431	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.540		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.93	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.70	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.38	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.84	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.81	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.74	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.53	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.85	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 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	0.41	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0303	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0033	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0458	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.0463	J	0.0032	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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	0.0038	J	0.0031	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0043	J	0.0032	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0031	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0663	J	0.0031	MDL	0.108	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
N-NITROSODIMETHYLAMINE	19.1	U	19.1	MDL	38.3	PQL	ng/Kg	UJ	Q

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
N-NITROSODIMETHYLAMINE	42.3		19.0	MDL	38.1	PQL	ng/Kg	J	S

Method Category: SVOA

Method: 6850 **Matrix: SO**

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	3.9	J	2.4	MDL	5.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: TB-052311 *Collected:* 5/23/2011 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
GASOLINE RANGE ORGANICS (C5-C12)	20	U	20	MDL	50	PQL	ug/L	UJ	H

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* REA2 *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	5.6	J	4.6	MDL	14	PQL	mg/Kg	J	Z, FD
EFH (C15-C20)	30		4.6	MDL	14	PQL	mg/Kg	J	FD

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *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)	8.2	J	4.5	MDL	13	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA *Dilution:* 1

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

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	4.6	U	4.6	MDL	14	PQL	mg/Kg	UJ	FD
EFH (C15-C20)	6.4	J	4.6	MDL	14	PQL	mg/Kg	J	Z, FD

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 1

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

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.6	U	2.6	MDL	3.9	PQL	ug/Kg	UJ	FD
DIELDRIN	0.097	U	0.097	MDL	0.39	PQL	ug/Kg	UJ	FD
MIREX	0.13	U	0.13	MDL	0.39	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	S
4,4'-DDE	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	S
4,4'-DDT	0.37	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z, S
ALDRIN	0.076	U	0.076	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	5.1	U	5.1	MDL	5.1	PQL	ug/Kg	UJ	S
DIELDRIN	0.20	U	0.20	MDL	0.39	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.051	U	0.051	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.076	U	0.076	MDL	0.39	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.069	U	0.069	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.39	U	0.39	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.12	U	0.12	MDL	0.39	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.6	PQL	ug/Kg	UJ	S

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
Chlordane	2.3	J	0.90	MDL	3.8	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.056	J	0.038	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
Chlordane	1.1	J	0.93	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
Chlordane	0.98	J	0.92	MDL	3.9	PQL	ug/Kg	J	Z, FD
DIELDRIN	0.11	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z, FD
MIREX	0.12	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.19	J	0.075	MDL	0.39	PQL	ug/Kg	J	Z
DIELDRIN	0.21	J	0.075	MDL	0.39	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.086	J	0.039	MDL	0.19	PQL	ug/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
4,4'-DDE	0.14	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z
4,4'-DDT	0.28	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z
Chlordane	1.2	J	0.92	MDL	3.9	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.17	J	0.076	MDL	0.39	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.3		0.45	MDL	1.9	PQL	ug/Kg	J	FD
Aroclor 5460	1.9	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, FD

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.7	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.5	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.45	U	0.45	MDL	1.9	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
Aroclor 5460	1.1	U	1.1	MDL	3.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
AROCLOR 1260	1.6	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.6	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
AROCLOR 1260	1.4	J	0.45	MDL	2.0	PQL	ug/Kg	J	Z
Aroclor 5460	3.4	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.16	J	0.086	MDL	0.20	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	1.4	J	0.86	MDL	2.0	PQL	ug/Kg	J	Z
DINOSEB	9.2	U	9.2	MDL	28	PQL	ug/Kg	R	L

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,4,5-TP (Silvex)	0.085	J	0.084	MDL	0.19	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.18	J	0.084	MDL	0.19	PQL	ug/Kg	J	Z
DINOSEB	0.89	U	0.89	MDL	2.7	PQL	ug/Kg	R	L
MCPA	97	J	85	MDL	280	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
DINOSEB	0.93	U	0.93	MDL	2.8	PQL	ug/Kg	R	L
MCPA	100	J	88	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,4,5-TP (Silvex)	0.16	J	0.086	MDL	0.20	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,4-D	1.9	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z
DINOSEB	0.91	U	0.91	MDL	2.7	PQL	ug/Kg	R	L
MCPA	270	J	86	MDL	280	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,4-D	1.7	J	1.4	MDL	4.2	PQL	ug/Kg	J	Z
DINOSEB	0.92	U	0.92	MDL	2.8	PQL	ug/Kg	R	L
MCPA	230	J	88	MDL	290	PQL	ug/Kg	J	Z

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.12	J	0.084	MDL	0.19	PQL	ug/Kg	J	Z
DINOSEB	0.90	U	0.90	MDL	2.7	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB05-SA5DN-SS-052311 *Collected:* 5/23/2011 2:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	19	U	19	MDL	380	PQL	ug/Kg	UJ	FD
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	77	U	77	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	77	U	77	MDL	190	PQL	ug/Kg	UJ	L
PHENANTHRENE	25	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	34	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	76	U	76	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
ANTHRACENE	54	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	110	J	19	MDL	190	PQL	ug/Kg	J	Z
CARBAZOLE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	32	J	19	MDL	190	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	75	U	75	MDL	190	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	130	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	60	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	100	J	18	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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(G,H,I)PERYLENE	41	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	37	J	18	MDL	370	PQL	ug/Kg	J	Z
Butylbenzylphthalate	28	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	100	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	120	J	18	MDL	180	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	74	U	74	MDL	180	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	53	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	170	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	21	J	19	MDL	190	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	77	U	77	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	78	U	78	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	19	MDL	380	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	77	U	77	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	75	U	75	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	77	U	77	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	74	U	74	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	76	U	76	MDL	190	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory:** LL

EDD Filename: PrepDE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-075-SA5DN-SB-9.0-10.0 ***Collected:*** 5/23/2011 3:45:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	19	MDL	380	PQL	ug/Kg	J	Z
HEXACHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	76	U	76	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-081-SA5DN-SB-4.0-5.0 ***Collected:*** 5/23/2011 1:10:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	73	U	73	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-081-SA5DN-SB-9.0-10.0 ***Collected:*** 5/23/2011 1:15:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	73	U	73	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-084-SA5DN-SB-4.0-5.0 ***Collected:*** 5/23/2011 9:30:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	74	U	74	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5DN-SB-4.0-5.0 ***Collected:*** 5/23/2011 10:25:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBUTADIENE	73	U	73	MDL	180	PQL	ug/Kg	UJ	L

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

Sample ID: EB05-SA5DN-SS-052311 *Collected:* 5/23/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.034	J	0.0098	MDL	0.049	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.034	J	0.0098	MDL	0.049	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.21	J	0.049	MDL	0.98	PQL	ug/L	U	B
Butylbenzylphthalate	0.073	J	0.049	MDL	0.98	PQL	ug/L	U	B
Di-n-butylphthalate	0.13	J	0.049	MDL	0.98	PQL	ug/L	U	B

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

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	5.7	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	5.1	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	4.1	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	11		3.8	MDL	9.5	PQL	ug/Kg	J	FD
CHRYSENE	6.9	J	1.9	MDL	9.5	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	16		3.8	MDL	9.5	PQL	ug/Kg	J	FD
PHENANTHRENE	11		3.8	MDL	9.5	PQL	ug/Kg	J	FD
PYRENE	11		3.8	MDL	9.5	PQL	ug/Kg	J	FD

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.2	J	3.8	MDL	9.5	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	7.3	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	6.6	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	6.0	J	3.8	MDL	9.5	PQL	ug/Kg	J	Z

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *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	7.0	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.2	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.0	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z
NAPHTHALENE	4.2	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z
PHENANTHRENE	6.5	J	3.7	MDL	9.4	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.9	MDL	9.3	PQL	ug/Kg	J	Z
PHENANTHRENE	5.9	J	3.7	MDL	9.3	PQL	ug/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	5.2	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	6.2	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.8	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	4.6	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
CHRYSENE	6.8	J	1.9	MDL	9.6	PQL	ug/Kg	J	Z
PHENANTHRENE	7.2	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
PYRENE	8.4	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
ANTHRACENE	0.42	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
BENZO(G,H,I)PERYLENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
BENZO(A)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	2.0		0.76	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
CHRYSENE	0.96	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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)ANTHRACENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.88	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.88	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	6.8	J	1.9	MDL	9.6	PQL	ug/Kg	J	Z
PHENANTHRENE	4.8	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z
PYRENE	6.1	J	3.8	MDL	9.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.8	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	5.9	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.3	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	4.5	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	4.2	J	3.8	MDL	9.4	PQL	ug/Kg	J	Z
CHRYSENE	3.4	J	1.9	MDL	9.4	PQL	ug/Kg	J	Z
FLUORANTHENE	5.0	J	3.8	MDL	9.4	PQL	ug/Kg	J	Z
NAPHTHALENE	7.6	J	3.8	MDL	9.4	PQL	ug/Kg	J	Z
PHENANTHRENE	8.6	J	3.8	MDL	9.4	PQL	ug/Kg	J	Z

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.55	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: AQ**

Sample ID: EB05-SA5DN-SS-052311 *Collected:* 5/23/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	10	U	10	MDL	50	PQL	ug/L	UJ	L

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	690	U	690	MDL	1700	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: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8315A **Matrix:** SO

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
FORMALDEHYDE	680	U	680	MDL	1700	PQL	ug/Kg	UJ	L

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
FORMALDEHYDE	670	U	670	MDL	1700	PQL	ug/Kg	UJ	L

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	680	U	680	MDL	1700	PQL	ug/Kg	UJ	L

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
FORMALDEHYDE	700	U	700	MDL	1700	PQL	ug/Kg	UJ	L

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
FORMALDEHYDE	690	U	690	MDL	1700	PQL	ug/Kg	UJ	Q, L

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
FORMALDEHYDE	680	U	680	MDL	1700	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 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
FORMALDEHYDE	660	U	660	MDL	1700	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: EB05-SA5DN-SS-052311 *Collected:* 5/23/2011 2:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
1,3-DINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2,4,6-TRINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2,4-DIAMINO-6-NITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2,4-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2,6-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2-AMINO-4,6-DINITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
2-NITROTOLUENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
3-NITROTOLUENE	0.40	U	0.40	MDL	1.2	PQL	ug/L	R	H
4-AMINO-2,6-DINITROTOLUENE	0.30	U	0.30	MDL	0.60	PQL	ug/L	R	H
4-NITROTOLUENE	0.60	U	0.60	MDL	1.2	PQL	ug/L	R	H
HMX	0.65	U	0.65	MDL	2.0	PQL	ug/L	R	H
NITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
Nitroglycerin	5.2	U	5.2	MDL	15	PQL	ug/L	R	H
PETN	6.0	U	6.0	MDL	18	PQL	ug/L	R	H
RDX	0.20	U	0.20	MDL	0.60	PQL	ug/L	R	H
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	R	H

Method Category: VOA

Method: 8015B **Matrix: AQ**

Sample ID: EB05-SA5DN-SS-052311 *Collected:* 5/23/2011 2:05:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	0.078	U	0.078	MDL	0.24	PQL	mg/L	UJ	S
O-TERPHENYL	0.078	U	0.078	MDL	0.24	PQL	mg/L	UJ	S
p-Terphenyl	0.078	U	0.078	MDL	0.24	PQL	mg/L	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: PrepDE159_v2 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	5.3		1.7	MDL	3.9	PQL	mg/Kg	J	S
O-TERPHENYL	1.9	J	1.7	MDL	3.9	PQL	mg/Kg	J	Z, S

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	L
ACETONE	8.5		6.9	MDL	8.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.1	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* RES *Dilution:* 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	L
ACETONE	8.7		7.0	MDL	8.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	0.79	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* RES *Dilution:* 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	L
ACETONE	8.0	J	6.9	MDL	8.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.2	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.47	U	0.47	MDL	4.7	PQL	ug/Kg	UJ	L
ACETONE	6.9	J	6.3	MDL	7.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	0.82	J	0.23	MDL	3.8	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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_v2 **eQAPP Name: CDM_SSFL_110509**

* 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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_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: DE159 **Laboratory: LL**

EDD Filename: PrepDE159_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

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE159

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE159 **Laboratory: LL**
EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M **Preparation Method: 3510C**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
TB-052311 (RES)	Sampling To Analysis	8.00	7.00	DAYS	J (all detects) UJ (all non-detects)

Method: 8330A **Preparation Method: 3510C**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB05-SA5DN-SS-052311 (RES)	Sampling To Extraction	15.00	7.00	DAYS	J(all detects) R(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory:** LL

EDD Filename: DE159_v2 **eQAPP Name:** CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P15108AB221915	6/1/2011 7:15:00 PM	PHOSPHORUS TIN	1.10 mg/Kg 1.58 mg/Kg	DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-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
DUP05-SA5DN-QC-052311(REA)	TIN	3.12 mg/Kg	3.12U mg/Kg
SED-035-SIV-SD(REA)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-015-SA5DN-SS-0.0-0.5(REA)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-016-SA5DN-SS-0.0-0.5(REA)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-017-SA5DN-SS-0.0-0.5(REA)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-019-SA5DN-SS-0.0-0.5(REA)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-021-SA5DN-SS-0.0-0.5(REA)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-022-SA5DN-SS-0.0-0.5(REA)	TIN	3.22 mg/Kg	3.22U mg/Kg
SL-023-SA5DN-SS-0.0-0.5(REA)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-052-SA5DN-SS-0.0-0.5(REA)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-053-SA5DN-SS-0.0-0.5(REA)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-075-SA5DN-SB-4.0-5.0(REA)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-075-SA5DN-SB-9.0-10.0(REA)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-081-SA5DN-SB-4.0-5.0(REA)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-081-SA5DN-SB-9.0-10.0(REA)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-084-SA5DN-SB-4.0-5.0(REA)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-089-SA5DN-SB-4.0-5.0(REA)	TIN	3.00 mg/Kg	3.00U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P15426AB220651A	6/6/2011 6:51:00 AM	COPPER	0.0807 mg/Kg	DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P48482AB321424A	6/1/2011 2:24:00 PM	EFH (C30-C40)	0.76 mg/Kg	DUP05-SA5DN-QC-052311 SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5
P57571AB322158A	6/7/2011 9:58:00 PM	EFH (C8-C11)	0.40 mg/Kg	SL-089-SA5DN-SB-4.0-5.0

Method: **8081A**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P46460AB240550A	6/3/2011 5:50:00 AM	ENDOSULFAN II	0.59 ug/L	EB05-SA5DN-SS-052311

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB67B211316A	5/27/2011 1:16:00 PM	ACETONE METHYLENE CHLORIDE	9.6 ug/Kg 1.1 ug/Kg	SL-075-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-4.0-5.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **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-075-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.5 ug/Kg	8.5U ug/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.1U ug/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.7 ug/Kg	8.7U ug/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.79 ug/Kg	4.2U ug/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.0 ug/Kg	8.3U ug/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.1U ug/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	ACETONE	6.9 ug/Kg	7.5U ug/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.82 ug/Kg	3.8U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWK14B260709	5/26/2011 7:09:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate Di-n-butylphthalate	0.11 ug/L 0.070 ug/L 0.082 ug/L	EB05-SA5DN-SS-052311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB05-SA5DN-SS-052311(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.21 ug/L	0.98U ug/L
EB05-SA5DN-SS-052311(RES)	Butylbenzylphthalate	0.073 ug/L	0.98U ug/L
EB05-SA5DN-SS-052311(RES)	Di-n-butylphthalate	0.13 ug/L	0.98U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 | Laboratory: LL

EDD Filename: DE159_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-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	40 60	39 60	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8315A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	FORMALDEHYDE	79	78	80.00-120.00	-	FORMALDEHYDE	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	ENDOSULFAN II	-	-	28.00-154.00	52 (50.00)	ENDOSULFAN II	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-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 -198 -1805 0	0 1919 3790 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- 63 (20.00) 50 (20.00) -	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out
SL-022-SA5DN-SS-0.0-0.5MS (SL-022-SA5DN-SS-0.0-0.5)	EFH (C15-C20)	40	-	49.00-123.00	-	EFH (C15-C20)	No Qual, Diluted Out

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	PETN	127	122	80.00-121.00	-	PETN	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_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-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	2-CHLORONAPHTHALENE 4-CHLORO-3-METHYLPHENOL	142 -	- 111	50.00-141.00 76.00-110.00	53 (30.00) -	2-CHLORONAPHTHALENE 4-CHLORO-3-METHYLPHENOL	J(all detects)
SL-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	BENZIDINE	26	29	35.00-141.00	-	BENZIDINE	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-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	N-NITROSODIMETHYLAMINE	24	24	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5DN-SS-0.0-0.5MS	ALUMINUM	1488	2387	75.00-125.00	-	ALUMINUM	
SL-022-SA5DN-SS-0.0-0.5MSD	MAGNESIUM	222	309	75.00-125.00	-	MAGNESIUM	
(DUP05-SA5DN-QC-052311	PHOSPHORUS	128	-	75.00-125.00	-	PHOSPHORUS	
SED-035-SIV-SD	POTASSIUM	161	154	75.00-125.00	-	POTASSIUM	J(all detects)
SL-015-SA5DN-SS-0.0-0.5	TITANIUM	215	285	75.00-125.00	-	TITANIUM	
SL-016-SA5DN-SS-0.0-0.5							Al, Mg, Ti
SL-017-SA5DN-SS-0.0-0.5							No Qual, >4x
SL-019-SA5DN-SS-0.0-0.5							
SL-021-SA5DN-SS-0.0-0.5							
SL-022-SA5DN-SS-0.0-0.5							
SL-023-SA5DN-SS-0.0-0.5							
SL-052-SA5DN-SS-0.0-0.5							
SL-053-SA5DN-SS-0.0-0.5							
SL-075-SA5DN-SB-4.0-5.0							
SL-075-SA5DN-SB-9.0-10.0							
SL-081-SA5DN-SB-4.0-5.0							
SL-081-SA5DN-SB-9.0-10.0							
SL-084-SA5DN-SB-4.0-5.0							
SL-089-SA5DN-SB-4.0-5.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_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-022-SA5DN-SS-0.0-0.5MS	CALCIUM	-2319	-1985	75.00-125.00	-	CALCIUM	
SL-022-SA5DN-SS-0.0-0.5MSD	IRON	677	-340	75.00-125.00	-	IRON	
(DUP05-SA5DN-QC-052311	MANGANESE	138	29	75.00-125.00	-	MANGANESE	
SED-035-SIV-SD							
SL-015-SA5DN-SS-0.0-0.5							
SL-016-SA5DN-SS-0.0-0.5							
SL-017-SA5DN-SS-0.0-0.5							
SL-019-SA5DN-SS-0.0-0.5							
SL-021-SA5DN-SS-0.0-0.5							No Qual, >4x
SL-022-SA5DN-SS-0.0-0.5							
SL-023-SA5DN-SS-0.0-0.5							
SL-052-SA5DN-SS-0.0-0.5							
SL-053-SA5DN-SS-0.0-0.5							
SL-075-SA5DN-SB-4.0-5.0							
SL-075-SA5DN-SB-9.0-10.0							
SL-081-SA5DN-SB-4.0-5.0							
SL-081-SA5DN-SB-9.0-10.0							
SL-084-SA5DN-SB-4.0-5.0							
SL-089-SA5DN-SB-4.0-5.0)							

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-022-SA5DN-SS-0.0-0.5MS	FLUORIDE	55	-	80.00-120.00	-	FLUORIDE	
(DUP05-SA5DN-QC-052311							
SED-035-SIV-SD							
SL-021-SA5DN-SS-0.0-0.5							J(all detects)
SL-022-SA5DN-SS-0.0-0.5							UJ(all non-detects)
SL-023-SA5DN-SS-0.0-0.5							
SL-052-SA5DN-SS-0.0-0.5							
SL-053-SA5DN-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-022-SA5DN-SS-0.0-0.5MS	ARSENIC	-	143	75.00-125.00	-	ARSENIC	
SL-022-SA5DN-SS-0.0-0.5MSD	CADMIUM	-	135	75.00-125.00	-	CADMIUM	
(DUP05-SA5DN-QC-052311	COPPER	-	144	75.00-125.00	-	COPPER	
SED-035-SIV-SD	LEAD	-	249	75.00-125.00	-	LEAD	
SL-015-SA5DN-SS-0.0-0.5	NICKEL	158	145	75.00-125.00	-	NICKEL	J(all detects)
SL-016-SA5DN-SS-0.0-0.5	SILVER	126	145	75.00-125.00	-	SILVER	
SL-017-SA5DN-SS-0.0-0.5	THALLIUM	-	150	75.00-125.00	-	THALLIUM	Pb, V, Zn
SL-019-SA5DN-SS-0.0-0.5	VANADIUM	-	230	75.00-125.00	-	VANADIUM	No Qual, >4x
SL-021-SA5DN-SS-0.0-0.5	ZINC	325	140	75.00-125.00	-	ZINC	
SL-022-SA5DN-SS-0.0-0.5							
SL-023-SA5DN-SS-0.0-0.5							
SL-052-SA5DN-SS-0.0-0.5							
SL-053-SA5DN-SS-0.0-0.5							
SL-075-SA5DN-SB-4.0-5.0							
SL-075-SA5DN-SB-9.0-10.0							
SL-081-SA5DN-SB-4.0-5.0							
SL-081-SA5DN-SB-9.0-10.0							
SL-084-SA5DN-SB-4.0-5.0							
SL-089-SA5DN-SB-4.0-5.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_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-022-SA5DN-SS-0.0-0.5MS **SL-022-SA5DN-SS-0.0-0.5MSD** (DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0)	ANTIMONY	60	74	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-022-SA5DN-SS-0.0-0.5MSD (DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0)	MOLYBDENUM	-	141	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-022-SA5DN-SS-0.0-0.5MS **SL-022-SA5DN-SS-0.0-0.5MSD** (DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0)	BARIUM	31	-349	75.00-125.00	24 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: DE159_v2 eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-084-SA5DN-SB-4.0-5.0DUP (SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0)	Nitrate-NO3	22	20.00	No Qual OK by difference
SL-022-SA5DN-SS-0.0-0.5DUP (DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5)	Nitrate-NO3	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-022-SA5DN-SS-0.0-0.5DUP (DUP05-SA5DN-QC-052311 SED-035-SIV-SD SL-015-SA5DN-SS-0.0-0.5 SL-016-SA5DN-SS-0.0-0.5 SL-017-SA5DN-SS-0.0-0.5 SL-019-SA5DN-SS-0.0-0.5 SL-021-SA5DN-SS-0.0-0.5 SL-022-SA5DN-SS-0.0-0.5 SL-023-SA5DN-SS-0.0-0.5 SL-052-SA5DN-SS-0.0-0.5 SL-053-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SB-4.0-5.0 SL-075-SA5DN-SB-9.0-10.0 SL-081-SA5DN-SB-4.0-5.0 SL-081-SA5DN-SB-9.0-10.0 SL-084-SA5DN-SB-4.0-5.0 SL-089-SA5DN-SB-4.0-5.0)	BORON CALCIUM	41 74	20.00 20.00	J(all detects) UJ(all non-detects) B No Qual OK by difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-022-SA5DN-SS-0.0-0.5DUP	ANTIMONY	53	20.00	
(DUP05-SA5DN-QC-052311	ARSENIC	29	20.00	
SED-035-SIV-SD	BARIUM	35	20.00	
SL-015-SA5DN-SS-0.0-0.5	BERYLLIUM	26	20.00	
SL-016-SA5DN-SS-0.0-0.5	CADMIUM	0.3531	0.228 mg/Kg	J(all detects)
SL-017-SA5DN-SS-0.0-0.5	COBALT	31	20.00	UJ(all non-detects)
SL-019-SA5DN-SS-0.0-0.5	COPPER	28	20.00	
SL-021-SA5DN-SS-0.0-0.5	MOLYBDENUM	28	20.00	Sb, Se, Ag, Tl
SL-022-SA5DN-SS-0.0-0.5	NICKEL	34	20.00	No Qual
SL-023-SA5DN-SS-0.0-0.5	SELENIUM	50	20.00	OK by difference
SL-052-SA5DN-SS-0.0-0.5	SILVER	63	20.00	
SL-053-SA5DN-SS-0.0-0.5	THALLIUM	37	20.00	
SL-075-SA5DN-SB-4.0-5.0	VANADIUM	30	20.00	
SL-075-SA5DN-SB-9.0-10.0				
SL-081-SA5DN-SB-4.0-5.0				
SL-081-SA5DN-SB-9.0-10.0				
SL-084-SA5DN-SB-4.0-5.0				
SL-089-SA5DN-SB-4.0-5.0)				

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-022-SA5DN-SS-0.0-0.5DUP	MERCURY	100	20.00	
(DUP05-SA5DN-QC-052311				
SED-035-SIV-SD				
SL-015-SA5DN-SS-0.0-0.5				
SL-016-SA5DN-SS-0.0-0.5				
SL-017-SA5DN-SS-0.0-0.5				
SL-019-SA5DN-SS-0.0-0.5				
SL-021-SA5DN-SS-0.0-0.5				
SL-022-SA5DN-SS-0.0-0.5				No Qual
SL-023-SA5DN-SS-0.0-0.5				OK by difference
SL-052-SA5DN-SS-0.0-0.5				
SL-053-SA5DN-SS-0.0-0.5				
SL-075-SA5DN-SB-4.0-5.0				
SL-075-SA5DN-SB-9.0-10.0				
SL-081-SA5DN-SB-4.0-5.0				
SL-081-SA5DN-SB-9.0-10.0				
SL-084-SA5DN-SB-4.0-5.0				
SL-089-SA5DN-SB-4.0-5.0)				

Surrogate Outlier Report

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: DE159_v2 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-022-SA5DN-SS-0.0-0.5	N-Nitrosodimethylamine-d6	152	50.00-150.00	All Target Analytes	J(all detects)
SL-023-SA5DN-SS-0.0-0.5	N-Nitrosodimethylamine-d6	160	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015B
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB05-SA5DN-SS-052311	n-Triacontane-d62	27	50.00-150.00	All Target Analytes	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-016-SA5DN-SS-0.0-0.5	n-Triacontane-d62	159	50.00-150.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-035-SIV-SD	TETRACHLORO-M-XYLENE	22	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-017-SA5DN-SS-0.0-0.5	DECACHLOROBIPHENYL	178	20.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SED-035-SIV-SD	2,4-Dichlorophenylacetic acid	295	36.00-156.00	All Target Analytes	No Qual, Diluted Out

Method: 8315A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-021-SA5DN-SS-0.0-0.5	Butyraldehyde	128	64.00-126.00	All Target Analytes	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 Laboratory: LL

EDD Filename: DE159_v2 eQAPP Name: CDM_SSFL_110509

Method: 8315A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11447AQ242350A P11447AY240000A (EB05-SA5DN-SS-052311)	FORMALDEHYDE	62	68	69.00-130.00	-	FORMALDEHYDE	J (all detects) UJ (all non-detects)

Method: 8081A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11460AY240614A (EB05-SA5DN-SS-052311)	HEPTACHLOR	-	130	57.00-126.00	-	HEPTACHLOR	J(all detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11582AQ242115A P11582AY242158A (EB05-SA5DN-SS-052311)	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	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
P4WKLCSQ260741 P4WKLCSY260814 (EB05-SA5DN-SS-052311)	BENZO(A)PYRENE	142	146	60.00-127.00	-	BENZO(A)PYRENE	J(all detects)
	BENZO(B)FLUORANTHENE	145	148	69.00-123.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	147	152	57.00-131.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	143	147	59.00-130.00	-	BENZO(K)FLUORANTHENE	
	DIBENZO(A,H)ANTHRACENE	147	153	55.00-134.00	-	DIBENZO(A,H)ANTHRACENE	
	Di-n-octylphthalate	-	152	57.00-145.00	-	Di-n-octylphthalate	
	INDENO(1,2,3-CD)PYRENE	147	152	69.00-124.00	-	INDENO(1,2,3-CD)PYRENE	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P6WDLCSY262341 (EB05-SA5DN-SS-052311)	BENZOIC ACID	-	-	10.00-69.00	51 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8315A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11453AQ240834A (DUP05 -SA5DN -QC-052311 SL -015-SA5DN -SS-0.0-0.5 SL -016-SA5DN -SS-0.0-0.5 SL -019-SA5DN -SS-0.0-0.5 SL -021-SA5DN -SS-0.0-0.5 SL -022-SA5DN -SS-0.0-0.5 SL -023-SA5DN -SS-0.0-0.5 SL -089-SA5DN -SB-4.0-5.0)	FORMALDEHYDE	76	-	80.00-126.00	-	FORMALDEHYDE	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11450AQ240729A (DUP05 -SA5DN -QC-052311 SED -035-SIV-SD SL -015-SA5DN -SS-0.0-0.5 SL -016-SA5DN -SS-0.0-0.5 SL -017-SA5DN -SS-0.0-0.5 SL -019-SA5DN -SS-0.0-0.5 SL -021-SA5DN -SS-0.0-0.5 SL -022-SA5DN -SS-0.0-0.5 SL -023-SA5DN -SS-0.0-0.5 SL -052-SA5DN -SS-0.0-0.5 SL -053-SA5DN -SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11474AQ240533A (DUP05 -SA5DN -QC-052311 SED -035-SIV-SD SL -015-SA5DN -SS-0.0-0.5 SL -016-SA5DN -SS-0.0-0.5 SL -017-SA5DN -SS-0.0-0.5 SL -019-SA5DN -SS-0.0-0.5 SL -021-SA5DN -SS-0.0-0.5 SL -022-SA5DN -SS-0.0-0.5 SL -023-SA5DN -SS-0.0-0.5 SL -052-SA5DN -SS-0.0-0.5 SL -053-SA5DN -SS-0.0-0.5)	METHOXYCHLOR	126	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **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
P5LDLCSQ260325	2-NITROPHENOL	80	-	81.00-114.00	-	2-NITROPHENOL	J(all detects) UJ(all non-detects)
(DUP05-SA5DN-QC-052311	4-BROMOPHENYL-PHENYLETH	75	-	79.00-117.00	-	4-BROMOPHENYL-PHENYLET	
SED-035-SIV-SD	HEXACHLOROBENZENE	75	-	78.00-116.00	-	HEXACHLOROBENZENE	
SL-015-SA5DN-SS-0.0-0.5	HEXACHLOROBUTADIENE	66	-	70.00-112.00	-	HEXACHLOROBUTADIENE	
SL-016-SA5DN-SS-0.0-0.5							
SL-017-SA5DN-SS-0.0-0.5							
SL-019-SA5DN-SS-0.0-0.5							
SL-021-SA5DN-SS-0.0-0.5							
SL-022-SA5DN-SS-0.0-0.5							
SL-023-SA5DN-SS-0.0-0.5							
SL-052-SA5DN-SS-0.0-0.5							
SL-053-SA5DN-SS-0.0-0.5							
SL-075-SA5DN-SB-4.0-5.0							
SL-075-SA5DN-SB-9.0-10.0							
SL-081-SA5DN-SB-4.0-5.0							
SL-081-SA5DN-SB-9.0-10.0							
SL-084-SA5DN-SB-4.0-5.0							
SL-089-SA5DN-SB-4.0-5.0)							

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P15426AQ220655A	ANTIMONY	121	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC limits
(DUP05-SA5DN-QC-052311							
SED-035-SIV-SD							
SL-015-SA5DN-SS-0.0-0.5							
SL-016-SA5DN-SS-0.0-0.5							
SL-017-SA5DN-SS-0.0-0.5							
SL-019-SA5DN-SS-0.0-0.5							
SL-021-SA5DN-SS-0.0-0.5							
SL-022-SA5DN-SS-0.0-0.5							
SL-023-SA5DN-SS-0.0-0.5							
SL-052-SA5DN-SS-0.0-0.5							
SL-053-SA5DN-SS-0.0-0.5							
SL-075-SA5DN-SB-4.0-5.0							
SL-075-SA5DN-SB-9.0-10.0							
SL-081-SA5DN-SB-4.0-5.0							
SL-081-SA5DN-SB-9.0-10.0							
SL-084-SA5DN-SB-4.0-5.0							
SL-089-SA5DN-SB-4.0-5.0)							

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1B67Q211231A	2-Chloro-1,1,1-trifluoroethane	77	77	78.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)
LCS1B67Y211254A							
(SL-075-SA5DN-SB-4.0-5.0							
SL-081-SA5DN-SB-4.0-5.0							
SL-084-SA5DN-SB-4.0-5.0							
SL-089-SA5DN-SB-4.0-5.0)							

Field Duplicate RPD Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
MOISTURE	12.9	13.1	2		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
FLUORIDE	4.7	3.7	24	50.00	No Qualifiers Applied
Nitrate-NO3	1.6	1.2	29	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
ALUMINUM	30200	29900	1	50.00	No Qualifiers Applied
BORON	2.82	2.14	27	50.00	
IRON	32000	31500	2	50.00	
LITHIUM	26.1	26.0	0	50.00	
MAGNESIUM	6650	6720	1	50.00	
MANGANESE	451	427	5	50.00	
PHOSPHORUS	357	333	7	50.00	
POTASSIUM	4400	4320	2	50.00	
SODIUM	143	139	3	50.00	
STRONTIUM	41.8	38.0	10	50.00	
TIN	3.22	3.12	3	50.00	
TITANIUM	1660	1590	4	50.00	
Zirconium	6.98	6.81	2	50.00	
CALCIUM	18500	9310	66	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
ANTIMONY	0.510	0.457	11	50.00	No Qualifiers Applied
ARSENIC	8.16	8.68	6	50.00	
BARIUM	199	145	31	50.00	
BERYLLIUM	1.01	1.07	6	50.00	
CADMIUM	0.727	0.573	24	50.00	
CHROMIUM	30.1	29.7	1	50.00	
COBALT	13.0	9.39	32	50.00	
COPPER	22.8	25.7	12	50.00	
LEAD	20.0	22.5	12	50.00	
MOLYBDENUM	1.50	1.32	13	50.00	
NICKEL	28.9	30.8	6	50.00	
SELENIUM	0.232	0.210	10	50.00	
SILVER	0.0712	0.0939	27	50.00	
THALLIUM	0.491	0.494	1	50.00	
VANADIUM	91.4	102	11	50.00	
ZINC	162	195	18	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
HEXAVALENT CHROMIUM	0.74	1.0	30	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
MERCURY	0.0463	0.0303	42	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
EFH (C21-C30)	60	81	30	50.00	No Qualifiers Applied
EFH (C30-C40)	290	250	15	50.00	
EFH (C12-C14)	14 U	5.6	200	50.00	J(all detects)
EFH (C15-C20)	6.4	30	130	50.00	UJ(all non-detects)

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
4,4'-DDT	0.52	0.65	22	50.00	No Qualifiers Applied
Chlordane	0.98	3.9 U	200	50.00	J(all detects)
DIELDRIN	0.11	0.39 U	200	50.00	UJ(all non-detects)
MIREX	0.12	0.39 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
AROCLOR 1260	1.9 U	2.3	200	50.00	J(all detects)
Aroclor 5460	3.8 U	1.9	200	50.00	UJ(all non-detects)

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
2,4,5-TP (Silvex)	0.16	0.16	0	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
BENZO(A)PYRENE	1.9 U	5.7	200	50.00	J(all detects) UJ(all non-detects)
BENZO(B)FLUORANTHENE	2.0	5.1	87	50.00	
BENZO(G,H,I)PERYLENE	1.9 U	4.1	200	50.00	
BENZO(K)FLUORANTHENE	1.9 U	11	200	50.00	
CHRYSENE	0.96	6.9	151	50.00	
FLUORANTHENE	1.9 U	16	200	50.00	
PHENANTHRENE	1.9 U	11	200	50.00	
PYRENE	1.9 U	11	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
BIS(2-ETHYLHEXYL)PHTHALATE	27	380 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-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
PH	8.04	8.05	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB05-SA5DN-SS-052311	1-METHYLNAPHTHALENE	J	0.034	0.049	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.034	0.049	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.21	0.98	PQL	ug/L	
	Butylbenzylphthalate	J	0.073	0.98	PQL	ug/L	
	Di-n-butylphthalate	J	0.13	0.98	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-016-SA5DN-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-021-SA5DN-SS-0.0-0.5	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-023-SA5DN-SS-0.0-0.5	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)
SL-089-SA5DN-SB-4.0-5.0	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
DUP05-SA5DN-QC-052311	BORON	J	2.14	5.75	PQL	mg/Kg	J (all detects)
	TIN	J	3.12	11.5	PQL	mg/Kg	
SED-035-SIV-SD	SODIUM	J	113	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	11.6	PQL	mg/Kg	
	Zirconium	J	1.91	5.79	PQL	mg/Kg	
SL-015-SA5DN-SS-0.0-0.5	BORON	J	2.11	5.63	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	11.3	PQL	mg/Kg	
SL-016-SA5DN-SS-0.0-0.5	TIN	J	2.88	11.1	PQL	mg/Kg	J (all detects)
SL-017-SA5DN-SS-0.0-0.5	TIN	J	2.96	11.1	PQL	mg/Kg	J (all detects)
SL-019-SA5DN-SS-0.0-0.5	BORON	J	1.80	5.63	PQL	mg/Kg	J (all detects)
	TIN	J	3.04	11.3	PQL	mg/Kg	
SL-021-SA5DN-SS-0.0-0.5	BORON	J	1.71	5.76	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	11.5	PQL	mg/Kg	
SL-022-SA5DN-SS-0.0-0.5	BORON	J	2.82	5.63	PQL	mg/Kg	J (all detects)
	TIN	J	3.22	11.3	PQL	mg/Kg	
SL-023-SA5DN-SS-0.0-0.5	BORON	J	2.70	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	11.0	PQL	mg/Kg	
SL-052-SA5DN-SS-0.0-0.5	BORON	J	2.42	5.61	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	11.2	PQL	mg/Kg	
SL-053-SA5DN-SS-0.0-0.5	TIN	J	2.88	11.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	3.00 4.75	11.1 5.55	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-075-SA5DN-SB-9.0-10.0	TIN Zirconium	J J	2.78 4.70	11.3 5.64	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-081-SA5DN-SB-4.0-5.0	BORON TIN	J J	1.00 2.78	5.52 11.0	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-081-SA5DN-SB-9.0-10.0	TIN Zirconium	J J	2.66 3.95	10.5 5.25	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-084-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.79 4.74	10.6 5.32	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-089-SA5DN-SB-4.0-5.0	TIN	J	3.00	10.9	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	SELENIUM SILVER	J J	0.210 0.0939	0.456 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SED-035-SIV-SD	SELENIUM	J	0.154	0.454	PQL	mg/Kg	J (all detects)
SL-015-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.148 0.0755	0.442 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-016-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.114 0.0617	0.441 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-017-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.116 0.0786	0.435 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-019-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.144 0.0757	0.455 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-021-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.104 0.0740	0.457 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.232 0.0712	0.455 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-023-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.0791 0.0701	0.448 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-052-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.216 0.0774	0.449 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-053-SA5DN-SS-0.0-0.5	SELENIUM SILVER	J J	0.155 0.0515	0.436 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-075-SA5DN-SB-4.0-5.0	ANTIMONY SILVER	J J	0.204 0.0595	0.226 0.113	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-075-SA5DN-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J J J	0.194 0.0459 0.0669	0.221 0.443 0.111	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-081-SA5DN-SB-4.0-5.0	SILVER	J	0.0729	0.109	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-081-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.179	0.214	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0560	0.107	PQL	mg/Kg	
SL-084-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0788	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0345	0.111	PQL	mg/Kg	
SL-089-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0574	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0750	0.108	PQL	mg/Kg	

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5DN-SB-4.0-5.0	PERCHLORATE	J	3.9	5.8	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	HEXAVALENT CHROMIUM	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-015-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.93	1.1	PQL	mg/Kg	J (all detects)
SL-016-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-017-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-019-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.84	1.2	PQL	mg/Kg	J (all detects)
SL-021-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.81	1.2	PQL	mg/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-052-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.53	1.2	PQL	mg/Kg	J (all detects)
SL-053-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-075-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.2	PQL	mg/Kg	J (all detects)
SL-075-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.36	1.2	PQL	mg/Kg	J (all detects)
SL-084-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.85	1.1	PQL	mg/Kg	J (all detects)
SL-089-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	MERCURY	J	0.0303	0.109	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-035-SIV-SD	MERCURY	J	0.0131	0.114	PQL	mg/Kg	J (all detects)
SL-015-SA5DN-SS-0.0-0.5	MERCURY	J	0.0458	0.109	PQL	mg/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	MERCURY	J	0.0463	0.110	PQL	mg/Kg	J (all detects)
SL-052-SA5DN-SS-0.0-0.5	MERCURY	J	0.0038	0.110	PQL	mg/Kg	J (all detects)
SL-053-SA5DN-SS-0.0-0.5	MERCURY	J	0.0043	0.112	PQL	mg/Kg	J (all detects)
SL-081-SA5DN-SB-9.0-10.0	MERCURY	J	0.0130	0.109	PQL	mg/Kg	J (all detects)
SL-084-SA5DN-SB-4.0-5.0	MERCURY	J	0.0663	0.108	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DN-SS-0.0-0.5	O-TERPHENYL	J	1.9	3.9	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	EFH (C12-C14)	J	5.6	14	PQL	mg/Kg	J (all detects)
SL-016-SA5DN-SS-0.0-0.5	EFH (C15-C20)	J	8.2	13	PQL	mg/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	EFH (C15-C20)	J	6.4	14	PQL	mg/Kg	J (all detects)
SL-089-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.44	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-035-SIV-SD	4,4'-DDT	J	0.37	0.39	PQL	ug/Kg	J (all detects)
SL-016-SA5DN-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J J	2.3 0.056	3.8 0.19	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-021-SA5DN-SS-0.0-0.5	Chlordane	J	1.1	4.0	PQL	ug/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	Chlordane DIELDRIN MIREX	J J J	0.98 0.11 0.12	3.9 0.39 0.39	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-023-SA5DN-SS-0.0-0.5	4,4'-DDE DIELDRIN HEPTACHLOR EPOXIDE	J J J	0.19 0.21 0.086	0.39 0.39 0.19	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-052-SA5DN-SS-0.0-0.5	4,4'-DDE	J	0.14	0.39	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	0.28	0.39	PQL	ug/Kg	
	Chlordane	J	1.2	3.9	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.17	0.39	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	Aroclor 5460	J	1.9	3.8	PQL	ug/Kg	J (all detects)
SED-035-SIV-SD	Aroclor 5460	J	2.7	3.8	PQL	ug/Kg	J (all detects)
SL-019-SA5DN-SS-0.0-0.5	Aroclor 5460	J	1.5	3.8	PQL	ug/Kg	J (all detects)
SL-023-SA5DN-SS-0.0-0.5	AROCLOR 1260	J	1.6	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.6	3.8	PQL	ug/Kg	
SL-052-SA5DN-SS-0.0-0.5	AROCLOR 1260	J	1.4	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.4	3.8	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	2,4,5-TP (Silvex)	J	0.16	0.20	PQL	ug/Kg	J (all detects)
SED-035-SIV-SD	2,4,5-TP (Silvex)	J	1.4	2.0	PQL	ug/Kg	J (all detects)
SL-016-SA5DN-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.085	0.19	PQL	ug/Kg	J (all detects)
SL-017-SA5DN-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.18	0.19	PQL	ug/Kg	J (all detects)
	MCPA	J	97	280	PQL	ug/Kg	
SL-021-SA5DN-SS-0.0-0.5	MCPA	J	100	290	PQL	ug/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.16	0.20	PQL	ug/Kg	J (all detects)
SL-023-SA5DN-SS-0.0-0.5	2,4-D	J	1.9	4.1	PQL	ug/Kg	J (all detects)
	MCPA	J	270	280	PQL	ug/Kg	
SL-052-SA5DN-SS-0.0-0.5	2,4-D	J	1.7	4.2	PQL	ug/Kg	J (all detects)
	MCPA	J	230	290	PQL	ug/Kg	
SL-053-SA5DN-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.12	0.19	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	4.1	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-081-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	0.79	4.2	PQL	ug/Kg	J (all detects)
SL-084-SA5DN-SB-4.0-5.0	ACETONE	J	8.0	8.3	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.2	4.1	PQL	ug/Kg	
SL-089-SA5DN-SB-4.0-5.0	ACETONE	J	6.9	7.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	0.82	3.8	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-035-SIV-SD	FLUORANTHENE	J	37	190	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	25	190	PQL	ug/Kg	
	PYRENE	J	34	190	PQL	ug/Kg	
SL-016-SA5DN-SS-0.0-0.5	ANTHRACENE	J	54	190	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	110	190	PQL	ug/Kg	
	CARBAZOLE	J	20	190	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	32	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	130	190	PQL	ug/Kg	
	PHENANTHRENE	J	60	190	PQL	ug/Kg	
SL-017-SA5DN-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	130	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	100	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	41	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	37	370	PQL	ug/Kg	
	Butylbenzylphthalate	J	28	180	PQL	ug/Kg	
	CHRYSENE	J	100	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	22	180	PQL	ug/Kg	
	FLUORANTHENE	J	120	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	53	180	PQL	ug/Kg	
	PYRENE	J	170	180	PQL	ug/Kg	
SL-019-SA5DN-SS-0.0-0.5	Di-n-butylphthalate	J	21	190	PQL	ug/Kg	J (all detects)
SL-022-SA5DN-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	380	PQL	ug/Kg	J (all detects)
SL-075-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	BENZO(A)PYRENE	J	5.7	9.5	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	5.1	9.5	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.1	9.5	PQL	ug/Kg	
	CHRYSENE	J	6.9	9.5	PQL	ug/Kg	
SED-035-SIV-SD	BENZO(A)ANTHRACENE	J	8.2	9.5	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	7.3	9.5	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	6.6	9.5	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	6.0	9.5	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE159 **Laboratory: LL**

EDD Filename: DE159_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-015-SA5DN-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	7.0	9.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	6.2	9.4	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.0	9.4	PQL	ug/Kg	
	NAPHTHALENE	J	4.2	9.4	PQL	ug/Kg	
	PHENANTHRENE	J	6.5	9.4	PQL	ug/Kg	
SL-017-SA5DN-SS-0.0-0.5	ANTHRACENE	J	2.2	9.3	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	5.9	9.3	PQL	ug/Kg	
SL-019-SA5DN-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	5.2	9.6	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	6.2	9.6	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.8	9.6	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	4.6	9.6	PQL	ug/Kg	
	CHRYSENE	J	6.8	9.6	PQL	ug/Kg	
	PHENANTHRENE	J	7.2	9.6	PQL	ug/Kg	
	PYRENE	J	8.4	9.6	PQL	ug/Kg	
SL-021-SA5DN-SS-0.0-0.5	ANTHRACENE	J	0.42	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.7	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.7	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.9	PQL	ug/Kg	
SL-022-SA5DN-SS-0.0-0.5	CHRYSENE	J	0.96	1.9	PQL	ug/Kg	J (all detects)
SL-023-SA5DN-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.8	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.88	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.88	1.9	PQL	ug/Kg	
	PYRENE	J	1.7	1.9	PQL	ug/Kg	
SL-052-SA5DN-SS-0.0-0.5	CHRYSENE	J	6.8	9.6	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	4.8	9.6	PQL	ug/Kg	
	PYRENE	J	6.1	9.6	PQL	ug/Kg	
SL-053-SA5DN-SS-0.0-0.5	ANTHRACENE	J	2.2	9.2	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	5.9	9.2	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.3	9.2	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.5	9.2	PQL	ug/Kg	
SL-075-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	4.2	9.4	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	3.4	9.4	PQL	ug/Kg	
	FLUORANTHENE	J	5.0	9.4	PQL	ug/Kg	
	NAPHTHALENE	J	7.6	9.4	PQL	ug/Kg	
	PHENANTHRENE	J	8.6	9.4	PQL	ug/Kg	
SL-081-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.55	1.8	PQL	ug/Kg	

LDC #: 25984A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 8/15/11

SDG #: DE159 ADR

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	Mo found by CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Pb, Mg, Mn, Ti, V, Zn >4X J/UJ/A
VII.	Duplicate Sample Analysis	N	Sb, B, Hg, Ag, Se, Tl <5X, Cd. Difference 0.353 UJ/J
VIII.	Laboratory Control Samples (LCS)	N A	SRM, Sb within control limits (±0.2-8)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Mn Soil J/UJ/A (Cr, Co, Zn)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	ND	EB=17

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-084-SA5DN-SB-4.0-5.0	11	SL-021-SA5DN-SS-0.0-0.5	21	SL-022-SA5DN-SS-0.0-0.5DUP	31	MB
2	SL-089-SA5DN-SB-4.0-5.0	12	SL-022-SA5DN-SS-0.0-0.5	22		32	
3	SL-081-SA5DN-SB-4.0-5.0	13	SL-023-SA5DN-SS-0.0-0.5	23		33	
4	SL-081-SA5DN-SB-9.0-10.0	14	SL-052-SA5DN-SS-0.0-0.5	24		34	
5	SL-075-SA5DN-SB-4.0-5.0	15	SL-053-SA5DN-SS-0.0-0.5	25		35	
6	SL-075-SA5DN-SB-9.0-10.0	16	DUP05-SA5DN-QC-052311	26		36	
7	SL-015-SA5DN-SS-0.0-0.5	17	EB05-SA5DN-SS-052311	27		37	
8	SL-016-SA5DN-SS-0.0-0.5	18	SED-035-SIV-SD	28		38	
9	SL-017-SA5DN-SS-0.0-0.5	19	SL-022-SA5DN-SS-0.0-0.5MS	29		39	
10	SL-019-SA5DN-SS-0.0-0.5	20	SL-022-SA5DN-SS-0.0-0.5MSD	30		40	

Notes:

LDC #: 28984A4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: CR
2nd reviewer: A

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-18	Soil/AQ	(Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr)
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr

Analysis Method		
ICP		Al, B, Ca, Fe, Li, Mg, Mn, P, K, Na, Sr, Sn, Ti, Zr
ICP-MS		Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, V, Zn

Comments: Mercury by CVAA if performed

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE159
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6296047BKG Matrix Spike Lab Sample ID: 6296048MS Matrix Spike Duplicate Lab Sample ID: 6296049MSD
% Solids for Sample: 87.1
Batch Id(s): P15108A, P15426A, P15111A

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		30197.8715		33483.7698		35572.4680		220.7895	225.1187	MG/KG	1488		2387		6			20	P
Antimony	121	0.5104		1.3147		1.5119		1.3507	1.3507	MG/KG	60	N	74	N	14		75 - 125	20	MS
Arsenic	75	8.1618		10.1709		11.3753		2.2512	2.2512	MG/KG	89		143	N	11		75 - 125	20	MS
Barium	137	198.7246		202.2242		159.4516		11.2559	11.2559	MG/KG	31		-349		24	*		20	MS
Beryllium	9	1.0051		1.8759		2.1022		0.9005	0.9005	MG/KG	97		122		11		75 - 125	20	MS
Boron		2.8185	B	220.3148		224.9645		220.7895	225.1187	MG/KG	99		99		2		84 - 115	20	P
Cadmium	111	0.7266		1.8822		2.2505		1.1256	1.1256	MG/KG	103		135	N	18		75 - 125	20	MS
Calcium		18531.9241		8290.3504		9594.6613		441.5791	450.2375	MG/KG	-2319		-1985		15			20	P
Chromium	52	30.0781		41.3318		39.6659		11.2559	11.2559	MG/KG	100		85		4		75 - 125	20	MS
Cobalt	59	13.0247		64.0238		63.9562		56.2797	56.2797	MG/KG	91		90		0		75 - 125	20	MS
Copper	63	22.7575		34.2181		39.0131		11.2559	11.2559	MG/KG	102		144	N	13		75 - 125	20	MS
Iron		32005.1192		32752.3117		31622.5389		110.3948	112.5594	MG/KG	677		-340		4			20	P
Lead	208	19.9793		24.0652		28.3875		3.3768	3.3768	MG/KG	121		249		16			20	MS
Lithium		26.0980		137.4360		142.5587		110.3948	112.5594	MG/KG	101		103		4		82 - 114	20	P
Magnesium		6650.6033		7139.6726		7345.5562		220.7895	225.1187	MG/KG	222		309		3			20	P
Manganese		451.1346		527.2178		467.6257		55.1974	56.2797	MG/KG	138		29		12			20	P
Mercury		0.0463	B	0.2311		0.2156		0.1806	0.1874	MG/KG	102		90		7		65 - 135	20	CV
Molybdenum	98	1.5023		15.2315		17.3274		11.2559	11.2559	MG/KG	122		141	N	13		75 - 125	20	MS
Nickel	60	28.8504		46.6896		45.1813		11.2559	11.2559	MG/KG	158	N	145	N	3		75 - 125	20	MS
Phosphorus		357.0890		497.9555		457.5910		110.3948	112.5594	MG/KG	128	N	89		8		75 - 125	20	P
Potassium		4402.0328		6180.6014		6140.9671		1103.9477	1125.5938	MG/KG	161	N	154	N	1		75 - 125	20	P
Selenium	78	0.2321	B	2.6879		2.9693		2.2512	2.2512	MG/KG	109		122		10		75 - 125	20	MS
Silver	107	0.0712	B	14.2680		16.4224		11.2559	11.2559	MG/KG	126	N	145	N	14		75 - 125	20	MS
Sodium		142.9234		1230.2438		1244.2448		1103.9477	1125.5938	MG/KG	98		98		1		75 - 125	20	P
Strontium		41.7652		144.3434		147.8884		110.3948	112.5594	MG/KG	93		94		2		75 - 115	20	P
Thallium	203	0.4911		0.9743		1.1654		0.4502	0.4502	MG/KG	107		150	N	18		75 - 125	20	MS
Tin		3.2169	B	390.2113		393.4085		441.5791	450.2375	MG/KG	88		87		1		80 - 110	20	P
Titanium		1661.7163		1899.3961		1982.2528		110.3948	112.5594	MG/KG	215		285		4			20	P
Vanadium	51	91.3710		104.7027		117.2869		11.2559	11.2559	MG/KG	118		230		11			20	MS
Zinc	66	162.1443		198.6898		177.8663		11.2559	11.2559	MG/KG	325		140		11			20	MS
Zirconium		6.9776		111.0306		112.9792		110.3948	112.5594	MG/KG	94		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

74X

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE159
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6296047BKG
% Solids for Duplicate: 87.1
Batch ID(s): P15108A, P15426A, P15111A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6296050DUP
% Solids for Sample: 87.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			30197.8715		30657.2711		2		P
Antimony	121	0.2	0.5104		0.2963		53		MS
Arsenic	75		8.1618		6.0782		29	*	MS
Barium	137		198.7246		139.0559		35	*	MS
Beryllium	9		1.0051		0.7762		26	*	MS
Boron			2.8185	B	1.8654	B	41		P
Cadmium	111	0.1	0.7266		0.3735		64	*	MS
Calcium			18531.9241		8476.2388		74	*	P
Chromium	52		30.0781		28.3875		6		MS
Cobalt	59		13.0247		9.5068		31	*	MS
Copper	63		22.7575		17.0820		28	*	MS
Iron			32005.1192		31926.6417		0		P
Lead	208		19.9793		17.1698		15		MS
Lithium			26.0980		26.6395		2		P
Magnesium			6650.6033		6919.6462		4		P
Manganese			451.1346		434.8444		4		P
Mercury			0.0463	B	0.0155	B	100		CV
Molybdenum	98		1.5023		1.1368		28	*	MS
Nickel	60		28.8504		20.5601		34	*	MS
Phosphorus			357.0890		344.1646		4		P
Potassium			4402.0328		4404.5219		0		P
Selenium	78		0.2321	B	0.1394	B	50		MS
Silver	107	0.1	0.0712	B	0.1360		63		MS
Sodium		112.6	142.9234		139.7233		2		P
Strontium			41.7652		39.3471		6		P
Thallium	203	0.1	0.4911		0.3366		37	*	MS
Tin			3.2169	B	3.1613	B	2		P
Titanium			1661.7163		1619.1233		3		P
Vanadium	51		91.3710		67.3780		30	*	MS
Zinc	66		162.1443		152.2478		6		MS
Zirconium		5.6	6.9776		6.8022		3		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.

<5X
cd. = difference 0.353 |
(≤ 0.228)
J|UJ/A
DE159 6295

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.: DE159
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6296047BKG Serial Dilution Lab Sample ID: 6296047L
Batch ID(s): P15108A, P15426A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		268283.9300		287986.4500		7		P
Antimony	121	2.2450		1.8850	B	16		MS
Arsenic	75	35.9000		34.7950		3		MS
Barium	137	874.1000		811.5000		7		MS
Beryllium	9	4.4210		4.5870		4		MS
Boron		25.0400	B	44.5000	U	100		P
Cadmium	111	3.1960		2.9215		9		MS
Calcium		164641.3200		171470.8500		4		P
Chromium	52	132.3000		182.0000		38	E	MS
Cobalt	59	57.2900		72.5500		27	E	MS
Copper	63	100.1000		98.1500		2		MS
Iron		142169.9400		143981.6000		1		P
Lead	208	87.8800		81.5000		7		MS
Lithium		231.8600		249.1500		7		P
Magnesium		59085.2900		63205.2500		7		P
Manganese		4007.9700		4190.4500		5		P
Molybdenum	98	6.6080		6.2100		6		MS
Nickel	60	126.9000		122.7500		3		MS
Phosphorus		3172.4500		3180.7500		0		P
Potassium		39108.5400		41175.6500		5		P
Selenium	78	1.0210	B	1.0000	U	100		MS
Silver	107	0.3131	B	0.4257	B	36		MS
Sodium		1269.7600		1865.0000	U	100		P
Strontium		371.0500		380.9500		3		P
Thallium	203	2.1600		1.9480	B	10		MS
Tin		28.5800	B	50.0000	U	100		P
Titanium		14763.0200		15025.9500		2		P
Vanadium	51	401.9000		378.7000		6		MS
Zinc	66	713.2000		878.0000		23	E	MS
Zirconium		61.9900		87.5000	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.

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

DE159 6393

SAMPLE DELIVERY GROUP

DX020

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-301-SA5B-SS-0.0-0.5	6163642	N	METHOD	1613B	III
13-Dec-2010	SL-074-SA5B-SS-0.0-0.5	6163641	N	METHOD	1613B	III
13-Dec-2010	SED-031-SIV-SD-0.0-0.5	6163647	N	METHOD	1613B	III
13-Dec-2010	SL-076-SA5B-SS-0.0-0.5	6163635	N	METHOD	1613B	III
13-Dec-2010	SL-073-SA5B-SS-0.0-0.5	6163643	N	METHOD	1613B	III
13-Dec-2010	SL-072-SA5B-SS-0.0-0.5	6163644	N	METHOD	1613B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5	6163636	N	METHOD	1613B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MS	6163637	MS	METHOD	1613B	III
13-Dec-2010	SL-071-SA5B-SS-0.0-0.5MSD	6163638	MSD	METHOD	1613B	III
13-Dec-2010	DUP04-SA5B-QC-121310	6163645	FD	METHOD	1613B	III
13-Dec-2010	SED-040-SIV-SD-0.0-0.5	6163649	N	METHOD	1613B	III
13-Dec-2010	SL-084-SA5B-SS-0.0-0.5	6163634	N	METHOD	1613B	III
13-Dec-2010	SL-083-SA5B-SS-0.0-0.5	6163640	N	METHOD	1613B	III
13-Dec-2010	SL-139-SA5B-SS-0.0-0.5	6163639	N	METHOD	1613B	III
13-Dec-2010	SL-078-SA5B-SS-0.0-0.5	6163633	N	METHOD	1613B	III
13-Dec-2010	SED-030-SIV-SD-0.0-0.5	6163648	N	METHOD	1613B	III
13-Dec-2010	SED-029-SIV-SD-0.0-0.5	6163646	N	METHOD	1613B	III
13-Dec-2010	SL-236-SA5B-SS-0.0-0.5	6163654	N	METHOD	1613B	III
13-Dec-2010	SL-092-SA5B-SS-0.0-0.5	6163651	N	METHOD	1613B	III
13-Dec-2010	SL-086-SA5B-SS-0.0-0.5	6163650	N	METHOD	1613B	III
13-Dec-2010	SL-089-SA5B-SS-0.0-0.5	6163653	N	METHOD	1613B	III
13-Dec-2010	SL-103-SA5B-SS-0.0-0.5	6163652	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX020 Laboratory: LL

EDD Filename: DX020_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP04-SA5B-QC-121310 *Collected:* 12/13/2010 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.42	JB	0.0953	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.25	JB	0.0429	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.95	JB	0.0439	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.592	J	0.0427	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.564	J	0.0905	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	8980	EB	0.261	MDL	10.6	PQL	ng/Kg	J	*XI

Sample ID: SED-029-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.99	JB	0.0877	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.99	JB	0.0579	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.00	JB	0.0524	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.44	JB	0.0489	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.22	JB	0.0589	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.718	JB	0.0576	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.15	JBQ	0.101	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.27	JB	0.0507	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.53	JB	0.0504	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.187	J	0.0386	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.03	J	0.131	MDL	1.11	PQL	ng/Kg	J	Z

Sample ID: SED-030-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.368	JBQ	0.274	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.523	JBQ	0.234	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.12	J	0.286	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.326	JBQ	0.184	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.836	JBQ	0.284	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.71	JB	0.170	MDL	5.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.674	JB	0.223	MDL	5.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.844	JB	0.172	MDL	5.97	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-031-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.07	JB	0.0770	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.578	JB	0.0416	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.593	JB	0.0306	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.05	J	0.0390	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.541	JB	0.0277	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.18	JB	0.0388	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JBQ	0.0354	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.385	JB	0.0470	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.21	JB	0.0304	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.768	JB	0.0317	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.812	JB	0.0292	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0302	JQ	0.0237	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.331	JQ	0.0571	MDL	1.11	PQL	ng/Kg	J	Z

Sample ID: SED-040-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.46	JBQ	0.210	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.283	JBQ	0.176	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.223	JBQ	0.154	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.09	JQ	0.168	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.493	JBQ	0.182	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.316	JBQ	0.149	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.323	JBQ	0.0916	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.244	JBQ	0.147	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.336	JBQ	0.0880	MDL	5.45	PQL	ng/Kg	J	Z

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	169	B	0.0580	MDL	5.34	PQL	ng/Kg	J	Q
1,2,3,7,8,9-HXCDF	1.09	JB	0.0850	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.12	JB	0.0374	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.66	JB	0.0359	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.581	J	0.0464	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.449	J	0.0918	MDL	1.07	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory:** LL

EDD Filename: DX020_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-071-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	7170	EB	0.212	MDL	10.7	PQL	ng/Kg	J	*XI
OCDF	362	B	0.0697	MDL	10.7	PQL	ng/Kg	J	Q, Q

Sample ID: SL-072-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.95	JB	0.0561	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.03	JB	0.0301	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.36	JB	0.0401	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.63	JB	0.0359	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.17	JB	0.0328	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.786	JB	0.0461	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.860	JB	0.0479	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.51	JB	0.0322	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.95	JB	0.0393	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.63	JBQ	0.0308	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.731	J	0.0758	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-073-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.908	JB	0.0637	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.707	JB	0.0391	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.56	JBQ	0.0394	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.21	J	0.0393	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.00	JB	0.0364	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.00	JB	0.0419	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.708	JBQ	0.0442	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.36	JB	0.0320	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.833	JB	0.0380	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.878	JB	0.0278	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0983	JQ	0.0229	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.676	JQ	0.0606	MDL	1.05	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory:** LL

EDD Filename: DX020_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-074-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.25	JBQ	0.0777	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.904	JB	0.0477	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.791	JBQ	0.0453	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.72	J	0.0479	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.806	JB	0.0411	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.32	JB	0.0484	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.465	JBQ	0.0502	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.898	JB	0.0352	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.994	JB	0.0438	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.692	JB	0.0316	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.132	JQ	0.0253	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.333	JQ	0.0728	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-076-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 9:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.62	JB	0.0240	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.468	JB	0.0356	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.447	JBQ	0.0292	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.350	JB	0.0286	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.984	J	0.0313	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.360	JB	0.0256	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.899	JB	0.0309	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.190	JB	0.0335	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.293	JB	0.0348	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.211	JB	0.0192	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.373	JB	0.0275	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.270	JBQ	0.0179	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.152	JQ	0.0387	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	7.92	JB	0.0502	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-078-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.45	JB	0.146	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.52	JB	0.126	MDL	5.51	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory:** LL

EDD Filename: DX020_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-078-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 11:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	1.49	JB	0.0946	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.57	JB	0.0947	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.70	JB	0.136	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.05	JB	0.109	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.82	JB	0.0585	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.89	JB	0.0987	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.69	JB	0.0505	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.134	JQ	0.0423	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.812	JQ	0.121	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	31.2		0.292	MDL	1.08	PQL	ng/Kg		Z

Sample ID: SL-083-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.49	JB	0.763	MDL	5.42	PQL	ng/Kg	J	Z
OCDD	4950	EB	1.10	MDL	10.8	PQL	ng/Kg	J	*XI

Sample ID: SL-084-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:46:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.04	JB	0.0493	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.97	JB	0.0405	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.01	JB	0.0333	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.90	J	0.0411	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.28	JB	0.0306	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.33	JB	0.0418	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.379	JB	0.0399	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.883	JBQ	0.0534	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.257	JB	0.0260	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.75	JB	0.0322	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.239	JB	0.0246	MDL	5.47	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.104	J	0.0324	MDL	1.09	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory:** LL

EDD Filename: DX020_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-084-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 10:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.114	J	0.0345	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-086-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.22	JB	0.141	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.219	JQ	0.110	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0913	JBQ	0.0763	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.260	JBQ	0.118	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.110	JBQ	0.0971	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0998	JBQ	0.0562	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.152	JBQ	0.0834	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0780	JB	0.0525	MDL	5.31	PQL	ng/Kg	U	B
OCDF	3.30	JB	0.177	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.383	JB	0.344	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.30	JBQ	0.298	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.755	JB	0.269	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.04	JBQ	0.350	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.132	JBQ	0.0939	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.848	JBQ	0.291	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.285	JBQ	0.0864	MDL	5.36	PQL	ng/Kg	J	Z
OCDD	10500	EB	1.47	MDL	10.7	PQL	ng/Kg	J	*XI

Sample ID: SL-092-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.82	JB	0.192	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.724	JBQ	0.0910	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0722	JBQ	0.0686	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.170	JBQ	0.100	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0894	JBQ	0.0796	MDL	5.63	PQL	ng/Kg	U	B
OCDF	1.54	JB	0.173	MDL	11.3	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory:** LL

EDD Filename: DX020_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-103-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.86	JBQ	0.168	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.363	JBQ	0.0630	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.145	JQ	0.0891	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.221	JBQ	0.0909	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.142	JBQ	0.0786	MDL	5.63	PQL	ng/Kg	U	B
OCDF	0.798	JB	0.163	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-139-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.794	JB	0.0940	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.492	JBQ	0.0391	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.16	JB	0.0543	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.32	JQ	0.0391	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.06	JB	0.0457	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.936	JB	0.0397	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.862	JB	0.0665	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.695	JB	0.0541	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.892	JB	0.0375	MDL	5.69	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.800	JQ	0.107	MDL	1.14	PQL	ng/Kg	J	Z

Sample ID: SL-236-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.74	JBQ	0.500	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.767	JBQ	0.606	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.524	JBQ	0.415	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	JBQ	0.371	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.21	JQ	0.446	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.810	JB	0.358	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.917	JBQ	0.442	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.595	JBQ	0.383	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.457	JBQ	0.262	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.695	JBQ	0.338	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.82	JBQ	0.238	MDL	5.31	PQL	ng/Kg	J	Z
OCDF	9.75	JB	0.561	MDL	10.6	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory:** LL

EDD Filename: DX020_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-301-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.98	JB	0.0775	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.77	JB	0.0402	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.63	JB	0.0633	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.15	JB	0.0560	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.07	JBQ	0.0643	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.84	JB	0.0432	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.78	JB	0.0596	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.89	JB	0.0390	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.205	J	0.0345	MDL	1.10	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX020

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DX020 **Laboratory: LL**
EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B **Preparation Method: METHOD**
Matrix: SO

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
SL-301-SA5B-SS-0.0-0.5 (REA)	Extractionn To Analysis	57.00	45.00	DAYS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371647	1/4/2011 4:47:00 PM	1,2,3,4,6,7,8-HPCDD	0.120 ng/Kg	DUP04-SA5B-QC-121310
		1,2,3,4,6,7,8-HPCDF	0.142 ng/Kg	SED-029-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0456 ng/Kg	SED-030-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0175 ng/Kg	SED-031-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0536 ng/Kg	SED-040-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0265 ng/Kg	SL-071-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0253 ng/Kg	SL-072-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0565 ng/Kg	SL-073-SA5B-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0342 ng/Kg	SL-074-SA5B-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0395 ng/Kg	SL-076-SA5B-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0592 ng/Kg	SL-078-SA5B-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0407 ng/Kg	SL-083-SA5B-SS-0.0-0.5
		OCDD	0.267 ng/Kg	SL-084-SA5B-SS-0.0-0.5
		OCDF	0.165 ng/Kg	SL-086-SA5B-SS-0.0-0.5
				SL-089-SA5B-SS-0.0-0.5
				SL-092-SA5B-SS-0.0-0.5
				SL-103-SA5B-SS-0.0-0.5
				SL-139-SA5B-SS-0.0-0.5
				SL-236-SA5B-SS-0.0-0.5
				SL-301-SA5B-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
SED-031-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SED-040-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.223 ng/Kg	0.223U ng/Kg
SED-040-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-076-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.152 ng/Kg	0.152U ng/Kg
SL-086-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-089-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-092-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0722 ng/Kg	0.0722U ng/Kg
SL-092-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0894 ng/Kg	0.0894U ng/Kg
SL-103-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.363 ng/Kg	0.363U ng/Kg
SL-103-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-103-SA5B-SS-0.0-0.5(RES)	OCDF	0.798 ng/Kg	0.798U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDF OCDF	- -	- 144	40.00-135.00 40.00-135.00	26 (20.00) 26 (20.00)	1,2,3,4,6,7,8-HPCDF OCDF	J (all detects)
SL-071-SA5B-SS-0.0-0.5MS SL-071-SA5B-SS-0.0-0.5MSD (SL-071-SA5B-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDD	-76 -683	216 497	40.00-135.00 40.00-135.00	33 (20.00) 36 (20.00)	1,2,3,4,6,7,8-HPCDD OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
MOISTURE	6.3	5.9	7		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-071-SA5B-SS-0.0-0.5	DUP04-SA5B-QC-121310			
1,2,3,4,6,7,8-HPCDD	869	1140	27	50.00	
1,2,3,4,6,7,8-HPCDF	169	223	28	50.00	
1,2,3,4,7,8,9-HPCDF	13.6	17.8	27	50.00	
1,2,3,4,7,8-HxCDD	14.0	18.3	27	50.00	
1,2,3,4,7,8-HXCDF	7.50	9.88	27	50.00	
1,2,3,6,7,8-HXCDD	27.7	35.2	24	50.00	
1,2,3,6,7,8-HXCDF	8.83	11.0	22	50.00	
1,2,3,7,8,9-HXCDD	30.6	38.7	23	50.00	
1,2,3,7,8,9-HXCDF	1.09	1.42	26	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	5.45	6.69	20	50.00	
1,2,3,7,8-PECDF	1.12	1.25	11	50.00	
2,3,4,6,7,8-HXCDF	12.8	16.1	23	50.00	
2,3,4,7,8-PECDF	1.66	1.95	16	50.00	
2,3,7,8-TCDD	0.581	0.592	2	50.00	
2,3,7,8-TCDF	0.449	0.564	23	50.00	
OCDD	7170	8980	22	50.00	
OCDF	362	471	26	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX020 Laboratory: LL

EDD Filename: DX020_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA5B-SS-0.0-0.5	2,3,7,8-TCDF		31.2	1.08	PQL	ng/Kg	
DUP04-SA5B-QC-121310	1,2,3,7,8,9-HXCDF	JB	1.42	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.25	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.95	5.31	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.592	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.564	1.06	PQL	ng/Kg	
SED-029-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.99	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.99	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.00	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.44	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.22	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.718	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	1.15	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.27	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.53	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.187	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.03	1.11	PQL	ng/Kg	
SED-030-SIV-SD-0.0-0.5	1,2,3,4,7,8-HxCDD	JBQ	0.368	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.523	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.12	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.326	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.836	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.71	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.674	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.844	5.97	PQL	ng/Kg	
SED-031-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.07	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.578	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.593	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.05	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.541	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.18	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.204	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.385	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.21	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.768	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.812	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0302	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.331	1.11	PQL	ng/Kg	
SED-040-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JBQ	4.46	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.283	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.223	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	1.09	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.493	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.316	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.323	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.244	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.336	5.45	PQL	ng/Kg	
SL-071-SA5B-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.09	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.12	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.66	5.34	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.581	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.449	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-072-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.95	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.03	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.36	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.63	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.17	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.786	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.860	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.51	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.95	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.63	5.28	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.731	1.06	PQL	ng/Kg	
SL-073-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.908	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.707	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.56	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.21	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.00	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.00	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.708	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.36	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.833	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.878	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0983	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.676	1.05	PQL	ng/Kg	
SL-074-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.25	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.904	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.791	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.72	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.806	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.32	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.465	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.898	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.994	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.692	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.132	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.333	1.09	PQL	ng/Kg	
SL-076-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.62	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.468	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.447	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.350	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.984	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.360	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.899	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.190	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.293	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.211	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.373	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.270	5.31	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.152	1.06	PQL	ng/Kg	
	OCDF	JB	7.92	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.45	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.52	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.49	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.57	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.70	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.05	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.82	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.89	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.69	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.134	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.812	1.10	PQL	ng/Kg	
SL-083-SA5B-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	3.49	5.42	PQL	ng/Kg	J (all detects)
SL-084-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.04	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.97	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.01	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	3.90	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.28	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.33	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.379	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.883	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.257	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.75	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.239	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.104	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.114	1.09	PQL	ng/Kg	
SL-086-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.22	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.219	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0913	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.260	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.110	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0998	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.152	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0780	5.31	PQL	ng/Kg	
	OCDF	JB	3.30	10.6	PQL	ng/Kg	
SL-089-SA5B-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	0.383	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	2.30	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.755	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	1.04	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.132	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.848	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.285	5.36	PQL	ng/Kg	
SL-092-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.82	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.724	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0722	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.170	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0894	5.63	PQL	ng/Kg	
	OCDF	JB	1.54	11.3	PQL	ng/Kg	
SL-103-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JBQ	1.86	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.363	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.145	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.221	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.142	5.63	PQL	ng/Kg	
	OCDF	JB	0.798	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX020 **Laboratory: LL**

EDD Filename: DX020_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.794	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.492	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.16	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	1.32	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.06	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.936	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.862	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.695	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.892	5.69	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.800	1.14	PQL	ng/Kg	
SL-236-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JBQ	4.74	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.767	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.524	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.14	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	1.21	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.810	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.917	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.595	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.457	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.695	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.82	5.31	PQL	ng/Kg	
	OCDF	JB	9.75	10.6	PQL	ng/Kg	
SL-301-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.98	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.77	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.63	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.15	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	1.07	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.84	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.78	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.89	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.205	1.10	PQL	ng/Kg	

LDC #: 25550121

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: A
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
(Y) N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
		OCDD	> calibration range	DUP04-SA5B-QC-121310	J det / P
		↓	↓	SL-071-SA5B-SS-0.0-0.5	↓
				-083- ↓ ↓ ↓	
				-089-	

Comments: See sample calculation verification worksheet for recalculations

SAMPLE DELIVERY GROUP

DX021

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Dec-2010	SL-075-SA5B-SS-0.0-0.5	6163903	N	METHOD	1613B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0	6163897	N	METHOD	1613B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MS	6163898	MS	METHOD	1613B	III
13-Dec-2010	SL-006-SA5C-SB-4.0-5.0MSD	6163899	MSD	METHOD	1613B	III
13-Dec-2010	SL-006-SA5C-SB-9.0-10.0	6163895	N	METHOD	1613B	III
13-Dec-2010	SL-077-SA5B-SS-0.0-0.5	6163904	N	METHOD	1613B	III
13-Dec-2010	DUP13-SA5C-QC-121310	6163896	FD	METHOD	1613B	III
13-Dec-2010	SL-007-SA5C-SB-4.0-5.0	6163901	N	METHOD	1613B	III
13-Dec-2010	SL-007-SA5C-SB-9.0-10.0	6163902	N	METHOD	1613B	III
13-Dec-2010	EB15-SA5B-121310	6163900	EB	METHOD	1613B	III
13-Dec-2010	SL-087-SA5B-SS-0.0-0.5	6163906	N	METHOD	1613B	III
13-Dec-2010	SL-085-SA5B-SS-0.0-0.5	6163905	N	METHOD	1613B	III
13-Dec-2010	SL-003-SA5C-SB-4.0-5.0	6163909	N	METHOD	1613B	III
13-Dec-2010	SL-095-SA5B-SS-0.0-0.5	6163907	N	METHOD	1613B	III
13-Dec-2010	SED-032-SIV-SD-0.0-0.5	6163912	N	METHOD	1613B	III
13-Dec-2010	SL-091-SA5B-SS-0.0-0.5	6163908	N	METHOD	1613B	III
13-Dec-2010	SED-033-SIV-SD-0.0-0.5	6163913	N	METHOD	1613B	III
13-Dec-2010	SL-001-SA5C-SB-4.0-5.0	6163910	N	METHOD	1613B	III
13-Dec-2010	SL-001-SA5C-SB-9.0-10.0	6163911	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory:** LL

EDD Filename: DX021_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB15-SA5B-121310 *Collected:* 12/13/2010 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.77	JBQ	0.456	MDL	11.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	3.04	JB	0.258	MDL	11.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.663	JB	0.290	MDL	11.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.514	JB	0.440	MDL	11.5	PQL	pg/L	UJ	B, I
1,2,3,4,7,8-HXCDF	1.09	JBQ	0.295	MDL	11.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	1.01	JB	0.449	MDL	11.5	PQL	pg/L	UJ	B, I
1,2,3,6,7,8-HXCDF	0.846	JBQ	0.280	MDL	11.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.622	JB	0.496	MDL	11.5	PQL	pg/L	UJ	B, I
1,2,3,7,8,9-HXCDF	0.654	JB	0.304	MDL	11.5	PQL	pg/L	U	B
1,2,3,7,8-PECDD	2.02	JB	1.28	MDL	11.5	PQL	pg/L	UJ	B, I
1,2,3,7,8-PECDF	0.591	JB	0.334	MDL	11.5	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	1.13	JB	0.272	MDL	11.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.623	JB	0.289	MDL	11.5	PQL	pg/L	U	B
2,3,7,8-TCDD	3.48	U	3.48	MDL	3.48	PQL	pg/L	UJ	I
OCDD	7.38	JB	0.505	MDL	23.0	PQL	pg/L	U	B
OCDF	1.71	JB	0.506	MDL	23.0	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.03	JB	0.0240	MDL	5.73	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.677	JB	0.0109	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.139	JBQ	0.0231	MDL	5.73	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0401	JBQ	0.0172	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.160	JB	0.0174	MDL	5.73	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.287	JB	0.0173	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.115	JBQ	0.0138	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.447	JB	0.0174	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.512	JB	0.0242	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0649	JBQ	0.0263	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.334	JBQ	0.00952	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.237	JBQ	0.0162	MDL	5.73	PQL	ng/Kg	J	Z, FD

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP13-SA5C-QC-121310 *Collected:* 12/13/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.143	JBQ	0.0106	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0165	U	0.0165	MDL	1.15	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0368	JB	0.0216	MDL	1.15	PQL	ng/Kg	U	B
OCDD	8.45	JB	0.0242	MDL	11.5	PQL	ng/Kg	J	Z, FD
OCDF	0.898	JBQ	0.0275	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SED-032-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 2:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.13	JB	0.0370	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.86	JB	0.0334	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.19	JB	0.0302	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.48	JB	0.0348	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.12	JB	0.0270	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.68	JB	0.0344	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.369	JB	0.0360	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.40	JB	0.0530	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.11	JB	0.0222	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.46	JB	0.0289	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.23	JB	0.0214	MDL	5.72	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.228	JB	0.0289	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.556	JBQ	0.0564	MDL	1.14	PQL	ng/Kg	J	Z

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.643	JB	0.0398	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.21	JB	0.0339	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.741	JB	0.0300	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.48	JB	0.0356	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.799	JB	0.0274	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.01	JB	0.0350	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.217	JB	0.0343	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.874	JBQ	0.0525	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.460	JB	0.0242	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.07	JB	0.0290	MDL	5.31	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-033-SIV-SD-0.0-0.5 *Collected:* 12/13/2010 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.628	JBQ	0.0228	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	JBQ	0.0315	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.227	JB	0.0502	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA5C-SB-4.0-5.0 *Collected:* 12/13/2010 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.461	JB	0.0250	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.790	JB	0.0133	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0998	JB	0.0221	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0327	JB	0.0182	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.155	JBQ	0.0175	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.117	JBQ	0.0191	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.150	JB	0.0158	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.139	JB	0.0191	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.110	JB	0.0228	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0412	JBQ	0.0101	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.225	JB	0.0170	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.136	JB	0.0103	MDL	5.36	PQL	ng/Kg	U	B
OCDD	1.36	JB	0.0345	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.515	JB	0.0259	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-001-SA5C-SB-9.0-10.0 *Collected:* 12/13/2010 4:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.665	JB	0.0272	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.892	JB	0.0112	MDL	6.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.148	JB	0.0200	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0352	JBQ	0.0178	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.169	JB	0.0170	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0810	JBQ	0.0184	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.133	JB	0.0139	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0829	JBQ	0.0173	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.140	JB	0.0196	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0381	JBQ	0.0261	MDL	6.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0615	JB	0.0111	MDL	6.02	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory:** LL

EDD Filename: DX021_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 4:16:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.282	JB	0.0159	MDL	6.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.144	JB	0.0117	MDL	6.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0215	JB	0.0175	MDL	1.20	PQL	ng/Kg	U	B
OCDD	4.85	JB	0.0306	MDL	12.0	PQL	ng/Kg	J	Z
OCDF	0.700	JB	0.0295	MDL	12.0	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 2:37:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.96	JB	0.0161	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.212	JB	0.0240	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0843	JB	0.0298	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.231	JB	0.0204	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.358	JB	0.0297	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.187	JB	0.0179	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.270	JB	0.0281	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.161	JB	0.0219	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0932	JB	0.0265	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0899	JBQ	0.0120	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.303	JB	0.0184	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.296	JB	0.0145	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0234	JB	0.0189	MDL	1.08	PQL	ng/Kg	U	B
OCDF	3.36	JB	0.0278	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.54	JB	0.0331	MDL	5.64	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.428	JB	0.0140	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0739	JBQ	0.0249	MDL	5.64	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0294	JBQ	0.0219	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0520	JB	0.0181	MDL	5.64	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.362	JB	0.0227	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0857	JB	0.0166	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.510	JBQ	0.0223	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.445	JB	0.0220	MDL	5.64	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-006-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 9:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0742	JB	0.0274	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.294	JB	0.0125	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0838	JBQ	0.0170	MDL	5.64	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.100	JBQ	0.0120	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0249	JBQ	0.0191	MDL	1.13	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0498	JBQ	0.0242	MDL	1.13	PQL	ng/Kg	U	B
OCDD	25.4	B	0.0332	MDL	11.3	PQL	ng/Kg	J	Q, FD
OCDF	0.999	JB	0.0328	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-006-SA5C-SB-9.0-10.0 **Collected:** 12/13/2010 9:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.23	JB	0.0326	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.955	JB	0.0101	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0186	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0471	JBQ	0.0176	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.163	JB	0.0132	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.204	JB	0.0182	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JB	0.0107	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.197	JB	0.0174	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0937	JB	0.0159	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0346	JBQ	0.0166	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0757	JB	0.00773	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.241	JB	0.0124	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.137	JBQ	0.00784	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0321	JBQ	0.0144	MDL	1.09	PQL	ng/Kg	U	B
OCDF	1.53	JB	0.0236	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-007-SA5C-SB-4.0-5.0 **Collected:** 12/13/2010 12:14:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0161	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.246	JB	0.0285	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.112	JB	0.0271	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.177	JB	0.0220	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.321	JBQ	0.0283	MDL	5.44	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory:** LL

EDD Filename: DX021_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-007-SA5C-SB-4.0-5.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.135	JBQ	0.0183	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.285	JB	0.0271	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.231	JB	0.0260	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0864	JBQ	0.0310	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.164	JBQ	0.0150	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.247	JBQ	0.0212	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.241	JBQ	0.0159	MDL	5.44	PQL	ng/Kg	U	B
OCDF	2.06	JB	0.0337	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-007-SA5C-SB-9.0-10.0 ***Collected:*** 12/13/2010 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.71	JB	0.0163	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.194	JB	0.0227	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.126	JB	0.0326	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.116	JB	0.0216	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.557	JB	0.0347	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.128	JB	0.0195	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.353	JB	0.0331	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.170	JBQ	0.0240	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	JBQ	0.0322	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0980	JB	0.0144	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.162	JB	0.0206	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.144	JB	0.0139	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0237	JBQ	0.0225	MDL	1.10	PQL	ng/Kg	U	B
OCDF	4.77	JB	0.0316	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-075-SA5B-SS-0.0-0.5 ***Collected:*** 12/13/2010 9:03:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.847	JB	0.0361	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.909	JB	0.0286	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.629	JB	0.0263	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.30	JB	0.0291	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.613	JB	0.0232	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.31	JB	0.0298	MDL	5.32	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory:** LL

EDD Filename: DX021_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-075-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 9:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.467	JB	0.0317	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.518	JB	0.0419	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.378	JB	0.0142	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.706	JB	0.0258	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.435	JB	0.0145	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0679	JBQ	0.0182	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.214	JB	0.0339	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-077-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 10:04:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.96	JB	0.0167	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.478	JB	0.0318	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.443	JB	0.0297	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.378	JB	0.0250	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.946	JB	0.0310	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.373	JB	0.0202	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.884	JB	0.0301	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.236	JB	0.0322	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.290	JB	0.0311	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.247	JB	0.0121	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.501	JB	0.0237	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.329	JB	0.0135	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0969	JB	0.0178	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.220	JB	0.0263	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	7.92	JB	0.0316	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-085-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 1:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.641	JB	0.0417	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.301	JBQ	0.0415	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.720	JB	0.0294	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.32	JB	0.0437	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.939	JB	0.0270	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.836	JB	0.0432	MDL	5.36	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory:** LL

EDD Filename: DX021_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-085-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.353	JB	0.0331	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.208	JB	0.0683	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.774	JB	0.0205	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.544	JB	0.0278	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.517	JB	0.0200	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0844	JBQ	0.0232	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.197	JB	0.0430	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-087-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 1:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.08	JB	0.0553	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.527	JBQ	0.0763	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.163	JBQ	0.0416	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.462	JB	0.0252	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.983	JB	0.0426	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.319	JB	0.0236	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.485	JB	0.0414	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JB	0.0289	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0840	JB	0.0467	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.489	JB	0.0191	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.426	JB	0.0249	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.386	JB	0.0183	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0365	JB	0.0227	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.196	JB	0.0366	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	10.4	JB	0.0502	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-091-SA5B-SS-0.0-0.5 *Collected:* 12/13/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.16	JB	0.0349	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.430	JBQ	0.0474	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.169	JB	0.0264	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.354	JB	0.0205	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.766	JB	0.0269	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.317	JB	0.0311	MDL	5.44	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory:** LL

EDD Filename: DX021_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 3:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.414	JB	0.0237	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.212	JB	0.0210	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.344	JBQ	0.0137	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.438	JBQ	0.0185	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.333	JB	0.0115	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0431	JBQ	0.0108	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.198	JB	0.0229	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	5.66	JB	0.0266	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-095-SA5B-SS-0.0-0.5 **Collected:** 12/13/2010 2:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.995	JBQ	0.0846	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.492	JBQ	0.0721	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.509	JB	0.0508	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.84	JB	0.0747	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.603	JB	0.0458	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.04	JB	0.0712	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.532	JB	0.0553	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.369	JBQ	0.0901	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.515	JB	0.0322	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.632	JB	0.0492	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.503	JB	0.0312	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.282	JB	0.0499	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.146	JBQ	0.0601	MDL	1.05	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX021

Method Blank Outlier Report

Lab Reporting Batch ID: DX021 Laboratory: LL

EDD Filename: DX021_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371629	12/30/2010 4:29:00 PM	1,2,3,4,6,7,8-HPCDD	1.35 pg/L	EB15-SA5B-121310
		1,2,3,4,6,7,8-HPCDF	1.41 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.582 pg/L	
		1,2,3,4,7,8-HxCDD	0.485 pg/L	
		1,2,3,4,7,8-HXCDF	0.599 pg/L	
		1,2,3,6,7,8-HXCDD	0.512 pg/L	
		1,2,3,6,7,8-HXCDF	0.568 pg/L	
		1,2,3,7,8,9-HXCDD	0.483 pg/L	
		1,2,3,7,8,9-HXCDF	0.637 pg/L	
		1,2,3,7,8-PECDD	0.684 pg/L	
		1,2,3,7,8-PECDF	0.474 pg/L	
		2,3,4,6,7,8-HXCDF	0.505 pg/L	
		2,3,4,7,8-PECDF	0.810 pg/L	
		2,3,7,8-TCDD	2.81 pg/L	
		2,3,7,8-TCDF	0.181 pg/L	
		OCDD	2.39 pg/L	
		OCDF	1.43 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5B-121310(RES)	1,2,3,4,6,7,8-HPCDD	1.77 pg/L	1.77U pg/L
EB15-SA5B-121310(RES)	1,2,3,4,6,7,8-HPCDF	3.04 pg/L	3.04U pg/L
EB15-SA5B-121310(RES)	1,2,3,4,7,8,9-HPCDF	0.663 pg/L	0.663U pg/L
EB15-SA5B-121310(RES)	1,2,3,4,7,8-HxCDD	0.514 pg/L	0.514U pg/L
EB15-SA5B-121310(RES)	1,2,3,4,7,8-HXCDF	1.09 pg/L	1.09U pg/L
EB15-SA5B-121310(RES)	1,2,3,6,7,8-HXCDD	1.01 pg/L	1.01U pg/L
EB15-SA5B-121310(RES)	1,2,3,6,7,8-HXCDF	0.846 pg/L	0.846U pg/L
EB15-SA5B-121310(RES)	1,2,3,7,8,9-HXCDD	0.622 pg/L	0.622U pg/L
EB15-SA5B-121310(RES)	1,2,3,7,8,9-HXCDF	0.654 pg/L	0.654U pg/L
EB15-SA5B-121310(RES)	1,2,3,7,8-PECDD	2.02 pg/L	2.02U pg/L
EB15-SA5B-121310(RES)	1,2,3,7,8-PECDF	0.591 pg/L	0.591U pg/L
EB15-SA5B-121310(RES)	2,3,4,6,7,8-HXCDF	1.13 pg/L	1.13U pg/L
EB15-SA5B-121310(RES)	2,3,4,7,8-PECDF	0.623 pg/L	0.623U pg/L
EB15-SA5B-121310(RES)	OCDD	7.38 pg/L	7.38U pg/L
EB15-SA5B-121310(RES)	OCDF	1.71 pg/L	1.71U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371514	1/14/2011 3:14:00 PM	1,2,3,4,6,7,8-HPCDD	0.136 ng/Kg	DUP13-SA5C-QC-121310
		1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	SED-032-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0507 ng/Kg	SED-033-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0185 ng/Kg	SL-001-SA5C-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0503 ng/Kg	SL-001-SA5C-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0227 ng/Kg	SL-003-SA5C-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0334 ng/Kg	SL-006-SA5C-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0268 ng/Kg	SL-006-SA5C-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0604 ng/Kg	SL-007-SA5C-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0278 ng/Kg	SL-007-SA5C-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.0340 ng/Kg	SL-075-SA5B-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0453 ng/Kg	SL-077-SA5B-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0647 ng/Kg	SL-085-SA5B-SS-0.0-0.5
		2,3,7,8-TCDD	0.0150 ng/Kg	SL-087-SA5B-SS-0.0-0.5
		2,3,7,8-TCDF	0.0289 ng/Kg	SL-091-SA5B-SS-0.0-0.5
		OCDD	0.342 ng/Kg	SL-095-SA5B-SS-0.0-0.5
		OCDF	0.248 ng/Kg	

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP13-SA5C-QC-121310(RES)	1,2,3,4,7,8,9-HPCDF	0.139 ng/Kg	0.139U ng/Kg
DUP13-SA5C-QC-121310(RES)	1,2,3,4,7,8-HxCDD	0.0401 ng/Kg	0.0401U ng/Kg
DUP13-SA5C-QC-121310(RES)	1,2,3,4,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
DUP13-SA5C-QC-121310(RES)	1,2,3,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
DUP13-SA5C-QC-121310(RES)	1,2,3,7,8-PECDD	0.0649 ng/Kg	0.0649U ng/Kg
DUP13-SA5C-QC-121310(RES)	2,3,4,7,8-PECDF	0.143 ng/Kg	0.143U ng/Kg
DUP13-SA5C-QC-121310(RES)	2,3,7,8-TCDF	0.0368 ng/Kg	0.0368U ng/Kg
DUP13-SA5C-QC-121310(RES)	OCDF	0.898 ng/Kg	0.898U ng/Kg
SED-033-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.461 ng/Kg	0.461U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0327 ng/Kg	0.0327U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0412 ng/Kg	0.0412U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.225 ng/Kg	0.225U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.136 ng/Kg	0.136U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	OCDD	1.36 ng/Kg	1.36U ng/Kg
SL-001-SA5C-SB-4.0-5.0(RES)	OCDF	0.515 ng/Kg	0.515U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.665 ng/Kg	0.665U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0352 ng/Kg	0.0352U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0810 ng/Kg	0.0810U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0829 ng/Kg	0.0829U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0381 ng/Kg	0.0381U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0615 ng/Kg	0.0615U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-001-SA5C-SB-9.0-10.0(RES)	OCDF	0.700 ng/Kg	0.700U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.212 ng/Kg	0.212U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0843 ng/Kg	0.0843U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0932 ng/Kg	0.0932U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.296 ng/Kg	0.296U ng/Kg
SL-003-SA5C-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0234 ng/Kg	0.0234U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.428 ng/Kg	0.428U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0739 ng/Kg	0.0739U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0520 ng/Kg	0.0520U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0742 ng/Kg	0.0742U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0838 ng/Kg	0.0838U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.100 ng/Kg	0.100U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0249 ng/Kg	0.0249U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-006-SA5C-SB-4.0-5.0(RES)	OCDF	0.999 ng/Kg	0.999U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0471 ng/Kg	0.0471U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0937 ng/Kg	0.0937U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0346 ng/Kg	0.0346U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-006-SA5C-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.246 ng/Kg	0.246U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0864 ng/Kg	0.0864U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.164 ng/Kg	0.164U ng/Kg
SL-007-SA5C-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.194 ng/Kg	0.194U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX021 | Laboratory: LL

EDD Filename: DX021_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-007-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-007-SA5C-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0237 ng/Kg	0.0237U ng/Kg
SL-075-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0679 ng/Kg	0.0679U ng/Kg
SL-077-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.223 ng/Kg	0.223U ng/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0840 ng/Kg	0.0840U ng/Kg
SL-087-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0365 ng/Kg	0.0365U ng/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-091-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0431 ng/Kg	0.0431U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX021

Laboratory: LL

EDD Filename: DX021_v1.

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-006-SA5C-SB-4.0-5.0MSD (SL-006-SA5C-SB-4.0-5.0)	OCDD	-	-	40.00-135.00	23 (20.00)	OCDD	J (all detects)

Internal Standard Outlier Report

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB15-SA5B-121310	13C-1,2,7,8-TCDD (CRS) 13C-2,3,7,8-TCDD	9 3	35.00-197.00 25.00-164.00	2,3,7,8-TCDD	J (all detects) UJ(all non-detects)
EB15-SA5B-121310	13C-1,2,3,4,7,8-HxCDD 13C-1,2,3,6,7,8-HxCDD 13C-1,2,3,7,8,9-HxCDD 13C-1,2,3,7,8-PeCDD	24 23 21 15	32.00-141.00 28.00-130.00 28.00-130.00 25.00-181.00	1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8-PeCDD	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
MOISTURE	11.4	12.8	12		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5C-SB-4.0-5.0	DUP13-SA5C-QC-121310			
1,2,3,4,6,7,8-HPCDF	0.428	0.677	45	50.00	
1,2,3,4,7,8-HxCDD	0.0294	0.0401	31	50.00	
1,2,3,6,7,8-HXCDD	0.362	0.287	23	50.00	
1,2,3,6,7,8-HXCDF	0.0857	0.115	29	50.00	
1,2,3,7,8,9-HXCDD	0.510	0.447	13	50.00	
1,2,3,7,8,9-HXCDF	0.445	0.512	14	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.0742	0.0649	13	50.00	
1,2,3,7,8-PECDF	0.294	0.334	13	50.00	
2,3,4,7,8-PECDF	0.100	0.143	35	50.00	
2,3,7,8-TCDF	0.0498	0.0368	30	50.00	
OCDF	0.999	0.898	11	50.00	
1,2,3,4,6,7,8-HPCDD	2.54	1.03	85	50.00	
1,2,3,4,7,8,9-HPCDF	0.0739	0.139	61	50.00	
1,2,3,4,7,8-HXCDF	0.0520	0.160	102	50.00	J(all detects)
2,3,4,6,7,8-HXCDF	0.0838	0.237	96	50.00	UJ(all non-detects)
2,3,7,8-TCDD	0.0249	1.15 U	200	50.00	
OCDD	25.4	8.45	100	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX021 Laboratory: LL

EDD Filename: DX021_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5B-121310	1,2,3,4,6,7,8-HPCDD	JBQ	1.77	11.5	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	3.04	11.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.663	11.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.514	11.5	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	1.09	11.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	1.01	11.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.846	11.5	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.622	11.5	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.654	11.5	PQL	pg/L	
	1,2,3,7,8-PECDD	JB	2.02	11.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.591	11.5	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	1.13	11.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.623	11.5	PQL	pg/L	
	OCDD	JB	7.38	23.0	PQL	pg/L	
	OCDF	JB	1.71	23.0	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5C-QC-121310	1,2,3,4,6,7,8-HPCDD	JB	1.03	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.677	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.139	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0401	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.160	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.287	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.115	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.447	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.512	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0649	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.334	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.237	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.143	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0368	1.15	PQL	ng/Kg	
	OCDD	JB	8.45	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.898	11.5	PQL	ng/Kg	
SED-032-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.13	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.86	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.19	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.48	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.12	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.68	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.369	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.40	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.11	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.46	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.23	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.228	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.556	1.14	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-033-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.643	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.21	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.741	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.48	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.799	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.01	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.217	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.874	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.460	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.07	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.628	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.103	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.227	1.06	PQL	ng/Kg	
SL-001-SA5C-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.461	5.36	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.790	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0998	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0327	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.155	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.117	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.150	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.139	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.110	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0412	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.225	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.136	5.36	PQL	ng/Kg	
	OCDD	JB	1.36	10.7	PQL	ng/Kg	
	OCDF	JB	0.515	10.7	PQL	ng/Kg	
SL-001-SA5C-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.665	6.02	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.892	6.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.148	6.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0352	6.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.169	6.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0810	6.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.133	6.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0829	6.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.140	6.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0381	6.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0615	6.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.282	6.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.144	6.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0215	1.20	PQL	ng/Kg	
	OCDD	JB	4.85	12.0	PQL	ng/Kg	
	OCDF	JB	0.700	12.0	PQL	ng/Kg	
SL-003-SA5C-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.96	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.212	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0843	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.231	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.358	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.187	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.270	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.161	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0932	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0899	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.303	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.296	5.39	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0234	1.08	PQL	ng/Kg	
	OCDF	JB	3.36	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5C-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.54	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.428	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0739	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0294	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0520	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.362	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0857	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.510	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.445	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0742	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.294	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0838	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.100	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0249	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0498	1.13	PQL	ng/Kg	
	OCDF	JB	0.999	11.3	PQL	ng/Kg	
SL-006-SA5C-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.23	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.955	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.145	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0471	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.163	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.204	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.143	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.197	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0937	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0346	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0757	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.241	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.137	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0321	1.09	PQL	ng/Kg	
	OCDF	JB	1.53	10.9	PQL	ng/Kg	
SL-007-SA5C-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.246	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.112	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.177	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.321	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.135	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.285	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.231	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0864	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.164	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.247	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.44	PQL	ng/Kg	
	OCDF	JB	2.06	10.9	PQL	ng/Kg	
SL-007-SA5C-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.71	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.194	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.126	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.116	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.557	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.128	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.353	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.170	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.119	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0980	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.162	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.144	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0237	1.10	PQL	ng/Kg	
	OCDF	JB	4.77	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.847	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.909	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.629	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.30	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.613	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.31	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.467	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.518	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.378	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.706	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.435	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0679	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.214	1.06	PQL	ng/Kg	
SL-077-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.96	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.478	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.443	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.378	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.946	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.373	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.884	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.236	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.290	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.247	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.501	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.329	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0969	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.220	1.08	PQL	ng/Kg	
	OCDF	JB	7.92	10.8	PQL	ng/Kg	
SL-085-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.641	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.301	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.720	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.32	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.939	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.836	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.353	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.208	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.774	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.544	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.517	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0844	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.197	1.07	PQL	ng/Kg	
SL-087-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.08	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.527	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.163	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.462	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.983	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.319	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.485	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.223	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0840	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.489	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.426	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.386	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0365	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.196	1.09	PQL	ng/Kg	
	OCDF	JB	10.4	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX021 **Laboratory: LL**

EDD Filename: DX021_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.16	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.430	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.169	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.354	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.766	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.317	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.414	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.212	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.344	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.438	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.333	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0431	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.198	1.09	PQL	ng/Kg	
	OCDF	JB	5.66	10.9	PQL	ng/Kg	
SL-095-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.995	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.492	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.509	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.84	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.603	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.04	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.532	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.369	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.515	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.632	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.503	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.282	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.146	1.05	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX022

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SL-119-SA5B-SS-0.0-0.5	6164649	N	METHOD	1613B	III
14-Dec-2010	SL-105-SA5B-SS-0.0-0.5	6164655	N	METHOD	1613B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5	6164645	N	METHOD	1613B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MS	6164646	MS	METHOD	1613B	III
14-Dec-2010	SL-120-SA5B-SS-0.0-0.5MSD	6164647	MSD	METHOD	1613B	III
14-Dec-2010	DUP05-SA5B-QC-121410	6164644	FD	METHOD	1613B	III
14-Dec-2010	SL-108-SA5B-SS-0.0-0.5	6164648	N	METHOD	1613B	III
14-Dec-2010	SL-109-SA5B-SS-0.0-0.5	6164651	N	METHOD	1613B	III
14-Dec-2010	SL-121-SA5B-SS-0.0-0.5	6164653	N	METHOD	1613B	III
14-Dec-2010	SL-054-SA5B-SS-0.0-0.5	6164654	N	METHOD	1613B	III
14-Dec-2010	SL-240-SA5B-SS-0.0-0.5	6164650	N	METHOD	1613B	III
14-Dec-2010	SL-122-SA5B-SS-0.0-0.5	6164652	N	METHOD	1613B	III
14-Dec-2010	SL-123-SA5B-SS-0.0-0.5	6164659	N	METHOD	1613B	III
14-Dec-2010	SL-098-SA5B-SS-0.0-0.5	6164656	N	METHOD	1613B	III
14-Dec-2010	SL-124-SA5B-SS-0.0-0.5	6164660	N	METHOD	1613B	III
14-Dec-2010	SL-142-SA5B-SS-0.0-0.5	6164657	N	METHOD	1613B	III
14-Dec-2010	SL-143-SA5B-SS-0.0-0.5	6164658	N	METHOD	1613B	III
14-Dec-2010	SED-025-SIV-SD-0.0-0.5	6164665	N	METHOD	1613B	III
14-Dec-2010	SL-309-SA5B-SS-0.0-0.5	6164661	N	METHOD	1613B	III
14-Dec-2010	SL-310-SA5B-SS-0.0-0.5	6164663	N	METHOD	1613B	III
14-Dec-2010	SL-311-SA5B-SS-0.0-0.5	6164662	N	METHOD	1613B	III
14-Dec-2010	SL-312-SA5B-SS-0.0-0.5	6164664	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP05-SA5B-QC-121410 *Collected:* 12/14/2010 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.47	JB	0.0222	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.410	JB	0.0322	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.228	JB	0.0327	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.356	JBQ	0.0248	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.572	JB	0.0343	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.286	JB	0.0238	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.535	JB	0.0357	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.230	JB	0.0297	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.138	JBQ	0.0322	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.134	JB	0.0161	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.541	JBQ	0.0242	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.300	JBQ	0.0159	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0203	U	0.0203	MDL	1.04	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0808	JB	0.0242	MDL	1.04	PQL	ng/Kg	U	B
OCDF	10.3	JB	0.0392	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SED-025-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.55	JB	0.0404	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0290	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.142	JBQ	0.0444	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0309	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.219	JB	0.0273	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.324	JB	0.0326	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.196	JB	0.0244	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.238	JBQ	0.0328	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0589	JB	0.0310	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.156	JBQ	0.0435	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.291	JB	0.0230	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.243	JB	0.0262	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.690	JB	0.0227	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.381	JBQ	0.0598	MDL	1.12	PQL	ng/Kg	U	B
OCDF	2.27	JB	0.0372	MDL	11.2	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-054-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.32	JB	0.0465	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.08	JBQ	0.0449	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.505	JBQ	0.0362	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	4.69	JB	0.0465	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.642	JB	0.0332	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.98	JB	0.0447	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.274	JB	0.0391	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.435	JBQ	0.0639	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.330	JB	0.0191	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.856	JB	0.0353	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.367	JB	0.0179	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0735	JBQ	0.0319	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0546	JB	0.0353	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-098-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.52	B	0.0222	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.578	JB	0.0347	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.364	JB	0.0274	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.239	JB	0.0199	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.00	JB	0.0288	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.305	JB	0.0177	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.922	JB	0.0282	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.151	JB	0.0236	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.214	JBQ	0.0469	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.287	JBQ	0.0150	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.421	JBQ	0.0192	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.147	JB	0.0150	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0639	JBQ	0.0230	MDL	1.03	PQL	ng/Kg	U	B

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.15	JB	0.0461	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.795	JB	0.0452	MDL	5.22	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-105-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.400	JB	0.0350	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	4.14	JB	0.0474	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.588	JB	0.0310	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.63	JBQ	0.0444	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.282	JB	0.0376	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.412	JBQ	0.0712	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.424	JB	0.0211	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.755	JB	0.0338	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.148	JBQ	0.0206	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0802	JBQ	0.0366	MDL	1.04	PQL	ng/Kg	U	B

Sample ID: SL-108-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.13	JB	0.0446	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.722	JB	0.0343	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.526	JB	0.0303	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	3.51	JB	0.0348	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.641	JB	0.0280	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.50	JB	0.0369	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.431	JB	0.0356	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.343	JBQ	0.0435	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.542	JB	0.0172	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	1.02	JB	0.0295	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.502	JB	0.0167	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0648	JB	0.0247	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.113	JBQ	0.0315	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.812	JBQ	0.0448	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.553	JB	0.0497	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.435	JB	0.0296	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.38	JB	0.0518	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.461	JB	0.0258	MDL	5.31	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-109-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.967	JB	0.0486	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.314	JBQ	0.0323	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.245	JB	0.0408	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.247	JB	0.0134	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.772	JBQ	0.0285	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.376	JB	0.0138	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0406	JBQ	0.0221	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0866	JB	0.0224	MDL	1.06	PQL	ng/Kg	U	B

Sample ID: SL-119-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.549	JBQ	0.0379	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.310	JBQ	0.0346	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.337	JB	0.0325	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.914	JB	0.0357	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.438	JB	0.0285	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.972	JB	0.0363	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.485	JBQ	0.0380	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.213	JBQ	0.0416	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.219	JBQ	0.0186	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.610	JBQ	0.0305	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.302	JBQ	0.0187	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0754	JBQ	0.0316	MDL	1.08	PQL	ng/Kg	U	B

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.62	JB	0.0204	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.470	JB	0.0350	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.237	JB	0.0350	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.316	JB	0.0261	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.657	JB	0.0367	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.327	JB	0.0229	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.523	JB	0.0344	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.231	JB	0.0307	MDL	5.21	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-120-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.101	JBQ	0.0297	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.138	JB	0.0142	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.483	JB	0.0255	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.265	JB	0.0142	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0355	JBQ	0.0191	MDL	1.04	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.121	JB	0.0224	MDL	1.04	PQL	ng/Kg	U	B

Sample ID: SL-121-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.20	JB	0.0480	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.826	JB	0.0178	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.124	JBQ	0.0334	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.181	JBQ	0.0266	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.314	JBQ	0.0321	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.176	JB	0.0214	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.438	JB	0.0315	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.330	JB	0.0316	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.701	JBQ	0.0137	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.160	JB	0.0255	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.201	JBQ	0.0151	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0222	JBQ	0.0171	MDL	1.06	PQL	ng/Kg	U	B
OCDF	1.64	JB	0.0456	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.25	JB	0.0417	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0196	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.205	JB	0.0312	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0834	JBQ	0.0331	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.217	JB	0.0259	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.422	JBQ	0.0341	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.209	JB	0.0230	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.741	JB	0.0341	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.527	JBQ	0.0288	MDL	5.29	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 Laboratory: LL

EDD Filename: DX022_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-122-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.121	JBQ	0.0324	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.344	JBQ	0.0137	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.278	JB	0.0248	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.255	JB	0.0133	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0224	JBQ	0.0164	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0494	JB	0.0270	MDL	1.06	PQL	ng/Kg	U	B
OCDF	1.61	JB	0.0406	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-123-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.94	JB	0.0639	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.46	JB	0.0419	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.70	JB	0.0367	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	1.84	JB	0.0322	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.83	JB	0.0430	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.647	JB	0.0424	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.07	JB	0.0597	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.00	JB	0.0278	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	2.16	JB	0.0357	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	2.23	JB	0.0282	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.159	JB	0.0233	MDL	1.06	PQL	ng/Kg	U	B

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.05	JB	0.0360	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.06	JB	0.0285	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.862	JB	0.0261	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.93	JB	0.0295	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.759	JB	0.0238	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.43	JB	0.0293	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.773	JBQ	0.0300	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.542	JB	0.0496	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.841	JB	0.0201	MDL	5.27	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-124-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 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
2,3,4,6,7,8-HXCDF	0.840	JB	0.0255	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.831	JBQ	0.0195	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0882	JBQ	0.0194	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.373	JBQ	0.0449	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-142-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.01	JB	0.0383	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.707	JB	0.0156	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.103	JB	0.0349	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0550	JBQ	0.0253	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0920	JBQ	0.0216	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.117	JB	0.0264	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0568	JBQ	0.0176	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0982	JB	0.0260	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0673	JB	0.0275	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0512	JBQ	0.0297	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.185	JBQ	0.0107	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0798	JB	0.0201	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0547	JBQ	0.0116	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0267	JBQ	0.0214	MDL	1.07	PQL	ng/Kg	U	B
OCDF	1.67	JBQ	0.0502	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.24	JB	0.0371	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.645	JB	0.0135	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0660	JBQ	0.0294	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0525	JBQ	0.0273	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0609	JBQ	0.0189	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.214	JBQ	0.0281	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0503	JBQ	0.0155	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.324	JB	0.0271	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.201	JB	0.0232	MDL	5.19	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 Laboratory: LL

EDD Filename: DX022_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-143-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0773	JBQ	0.0292	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0737	JBQ	0.0101	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0658	JB	0.0187	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0574	JBQ	0.0104	MDL	5.19	PQL	ng/Kg	U	B
OCDF	1.39	JB	0.0402	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-240-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 9:33:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.907	JB	0.0540	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.08	JB	0.0529	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.602	JB	0.0450	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	3.93	JB	0.0531	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.656	JB	0.0415	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.48	JB	0.0520	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.298	JBQ	0.0510	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.546	JBQ	0.0842	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.327	JB	0.0294	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.932	JBQ	0.0448	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.539	JB	0.0284	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.130	JB	0.0486	MDL	1.04	PQL	ng/Kg	U	B

Sample ID: SL-309-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.814	JB	0.0231	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.585	JBQ	0.0242	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.701	JB	0.0215	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.50	JB	0.0246	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.470	JBQ	0.0194	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.11	JB	0.0241	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.279	JB	0.0222	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.324	JB	0.0285	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.222	JB	0.0126	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.546	JB	0.0206	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.253	JB	0.0122	MDL	5.21	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-309-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 1:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0594	JBQ	0.0131	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0495	JB	0.0193	MDL	1.04	PQL	ng/Kg	U	B

Sample ID: SL-310-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.16	JB	0.0307	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.450	JBQ	0.0392	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.317	JBQ	0.0403	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.303	JB	0.0342	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.07	JB	0.0427	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.268	JB	0.0327	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.759	JB	0.0432	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.260	JB	0.0354	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.158	JBQ	0.0492	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.355	JB	0.0227	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.364	JB	0.0346	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.299	JB	0.0216	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0262	JBQ	0.0218	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.159	JBQ	0.0436	MDL	1.05	PQL	ng/Kg	U	B
OCDF	9.13	JB	0.0404	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-311-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 2:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	3.73	JB	0.0339	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.22	JB	0.0326	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.29	JB	0.0356	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	2.91	JB	0.0556	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.615	JB	0.0180	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	4.52	JB	0.0338	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.00	JB	0.0164	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.331	JB	0.0229	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.279	JB	0.0348	MDL	1.08	PQL	ng/Kg	U	B
OCDD	5310	EB	0.140	MDL	10.8	PQL	ng/Kg	J	*XI

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory:** LL

EDD Filename: DX022_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-312-SA5B-SS-0.0-0.5 **Collected:** 12/14/2010 2:27:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.851	JB	0.0382	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.03	JB	0.0309	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.582	JB	0.0298	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.12	JB	0.0321	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.579	JB	0.0281	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.93	JB	0.0322	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.226	JBQ	0.0343	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.462	JB	0.0396	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.212	JB	0.0160	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.785	JB	0.0286	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.286	JBQ	0.0151	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0561	JB	0.0169	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0388	JB	0.0239	MDL	1.05	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX022

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB372126	1/17/2011 9:26:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,6-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.682 ng/Kg 1.19 ng/Kg 0.343 ng/Kg 0.206 ng/Kg 0.370 ng/Kg 0.259 ng/Kg 0.338 ng/Kg 0.247 ng/Kg 0.320 ng/Kg 0.244 ng/Kg 0.242 ng/Kg 0.498 ng/Kg 0.330 ng/Kg 0.0349 ng/Kg 0.0662 ng/Kg 1.49 ng/Kg 1.16 ng/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-SS-0.0-0.5
PBB371751	2/5/2011 5:51:00 PM	2,3,7,8-TCDF	0.0805 ng/Kg	DUP05-SA5B-QC-121410 SED-025-SIV-SD-0.0-0.5 SL-054-SA5B-SS-0.0-0.5 SL-098-SA5B-SS-0.0-0.5 SL-105-SA5B-SS-0.0-0.5 SL-108-SA5B-SS-0.0-0.5 SL-109-SA5B-SS-0.0-0.5 SL-119-SA5B-SS-0.0-0.5 SL-120-SA5B-SS-0.0-0.5 SL-121-SA5B-SS-0.0-0.5 SL-122-SA5B-SS-0.0-0.5 SL-123-SA5B-SS-0.0-0.5 SL-124-SA5B-SS-0.0-0.5 SL-142-SA5B-SS-0.0-0.5 SL-143-SA5B-SS-0.0-0.5 SL-240-SA5B-SS-0.0-0.5 SL-309-SA5B-SS-0.0-0.5 SL-310-SA5B-SS-0.0-0.5 SL-311-SA5B-SS-0.0-0.5 SL-312-SA5B-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
DUP05-SA5B-QC-121410(RES)	1,2,3,4,6,7,8-HPCDF	4.47 ng/Kg	4.47U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,4,7,8,9-HPCDF	0.410 ng/Kg	0.410U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,4,7,8-HxCDD	0.228 ng/Kg	0.228U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,4,7,8-HXCDF	0.356 ng/Kg	0.356U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,6,7,8-HXCDD	0.572 ng/Kg	0.572U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,6,7,8-HXCDF	0.286 ng/Kg	0.286U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,7,8,9-HXCDD	0.535 ng/Kg	0.535U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,7,8,9-HXCDF	0.230 ng/Kg	0.230U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,7,8-PECDD	0.138 ng/Kg	0.138U ng/Kg
DUP05-SA5B-QC-121410(RES)	1,2,3,7,8-PECDF	0.134 ng/Kg	0.134U ng/Kg
DUP05-SA5B-QC-121410(RES)	2,3,4,6,7,8-HXCDF	0.541 ng/Kg	0.541U ng/Kg
DUP05-SA5B-QC-121410(RES)	2,3,4,7,8-PECDF	0.300 ng/Kg	0.300U ng/Kg
DUP05-SA5B-QC-121410(RES)	2,3,7,8-TCDF	0.0808 ng/Kg	0.0808U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.34 ng/Kg	1.34U ng/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.324 ng/Kg	0.324U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.238 ng/Kg	0.238U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0589 ng/Kg	0.0589U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.156 ng/Kg	0.156U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.291 ng/Kg	0.291U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.243 ng/Kg	0.243U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.690 ng/Kg	0.690U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDF	0.381 ng/Kg	0.381U ng/Kg
SED-025-SIV-SD-0.0-0.5(RES)	OCDF	2.27 ng/Kg	2.27U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	1.32 ng/Kg	1.32U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.505 ng/Kg	0.505U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.642 ng/Kg	0.642U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.274 ng/Kg	0.274U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.435 ng/Kg	0.435U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.330 ng/Kg	0.330U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.856 ng/Kg	0.856U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.367 ng/Kg	0.367U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0735 ng/Kg	0.0735U ng/Kg
SL-054-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	5.52 ng/Kg	5.52U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.578 ng/Kg	0.578U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.364 ng/Kg	0.364U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.305 ng/Kg	0.305U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.922 ng/Kg	0.922U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.214 ng/Kg	0.214U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.287 ng/Kg	0.287U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.421 ng/Kg	0.421U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.147 ng/Kg	0.147U ng/Kg
SL-098-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0639 ng/Kg	0.0639U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	1.15 ng/Kg	1.15U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.795 ng/Kg	0.795U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.400 ng/Kg	0.400U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.588 ng/Kg	0.588U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.282 ng/Kg	0.282U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.412 ng/Kg	0.412U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.424 ng/Kg	0.424U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.755 ng/Kg	0.755U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-105-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	1.13 ng/Kg	1.13U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.722 ng/Kg	0.722U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.526 ng/Kg	0.526U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.641 ng/Kg	0.641U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.431 ng/Kg	0.431U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.343 ng/Kg	0.343U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.542 ng/Kg	0.542U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	1.02 ng/Kg	1.02U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.502 ng/Kg	0.502U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0648 ng/Kg	0.0648U ng/Kg
SL-108-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.113 ng/Kg	0.113U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.812 ng/Kg	0.812U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.553 ng/Kg	0.553U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.435 ng/Kg	0.435U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.461 ng/Kg	0.461U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.967 ng/Kg	0.967U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.314 ng/Kg	0.314U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.245 ng/Kg	0.245U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.247 ng/Kg	0.247U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.772 ng/Kg	0.772U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.376 ng/Kg	0.376U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0406 ng/Kg	0.0406U ng/Kg
SL-109-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0866 ng/Kg	0.0866U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.549 ng/Kg	0.549U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.310 ng/Kg	0.310U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.337 ng/Kg	0.337U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.914 ng/Kg	0.914U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.438 ng/Kg	0.438U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.972 ng/Kg	0.972U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.485 ng/Kg	0.485U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.213 ng/Kg	0.213U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.219 ng/Kg	0.219U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.610 ng/Kg	0.610U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.302 ng/Kg	0.302U ng/Kg
SL-119-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0754 ng/Kg	0.0754U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	4.62 ng/Kg	4.62U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.470 ng/Kg	0.470U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.237 ng/Kg	0.237U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.318 ng/Kg	0.316U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.657 ng/Kg	0.657U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.327 ng/Kg	0.327U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.523 ng/Kg	0.523U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.101 ng/Kg	0.101U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.483 ng/Kg	0.483U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.265 ng/Kg	0.285U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-120-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.121 ng/Kg	0.121U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	2.20 ng/Kg	2.20U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.826 ng/Kg	0.826U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.181 ng/Kg	0.181U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.314 ng/Kg	0.314U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.438 ng/Kg	0.438U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.330 ng/Kg	0.330U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.701 ng/Kg	0.701U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.201 ng/Kg	0.201U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0222 ng/Kg	0.0222U ng/Kg
SL-121-SA5B-SS-0.0-0.5(RES)	OCDF	1.64 ng/Kg	1.64U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	2.25 ng/Kg	2.25U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.17 ng/Kg	1.17U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0834 ng/Kg	0.0834U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.422 ng/Kg	0.422U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.209 ng/Kg	0.209U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.741 ng/Kg	0.741U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.527 ng/Kg	0.527U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.344 ng/Kg	0.344U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.278 ng/Kg	0.278U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.255 ng/Kg	0.255U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-122-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0224 ng/Kg	0.0224U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-122-SA5B-SS-0.0-0.5(RES)	OCDF	1.61 ng/Kg	1.61U ng/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	1.70 ng/Kg	1.70U ng/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.647 ng/Kg	0.647U ng/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	1.07 ng/Kg	1.07U ng/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	1.00 ng/Kg	1.00U ng/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	2.16 ng/Kg	2.16U ng/Kg
SL-123-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.159 ng/Kg	0.159U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	1.05 ng/Kg	1.05U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.862 ng/Kg	0.862U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.759 ng/Kg	0.759U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.773 ng/Kg	0.773U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.542 ng/Kg	0.542U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.841 ng/Kg	0.841U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.840 ng/Kg	0.840U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.831 ng/Kg	0.831U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0882 ng/Kg	0.0862U ng/Kg
SL-124-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.373 ng/Kg	0.373U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	3.01 ng/Kg	3.01U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.707 ng/Kg	0.707U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0550 ng/Kg	0.0550U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0920 ng/Kg	0.0920U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0982 ng/Kg	0.0962U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0512 ng/Kg	0.0512U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-142-SA5B-SS-0.0-0.5(RES)	OCDF	1.67 ng/Kg	1.67U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	3.24 ng/Kg	3.24U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.645 ng/Kg	0.645U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0660 ng/Kg	0.0660U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0525 ng/Kg	0.0525U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0609 ng/Kg	0.0609U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.214 ng/Kg	0.214U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0503 ng/Kg	0.0503U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.324 ng/Kg	0.324U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.201 ng/Kg	0.201U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0773 ng/Kg	0.0773U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0658 ng/Kg	0.0658U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-143-SA5B-SS-0.0-0.5(RES)	OCDF	1.39 ng/Kg	1.39U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.907 ng/Kg	0.907U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.602 ng/Kg	0.602U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.656 ng/Kg	0.656U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.298 ng/Kg	0.298U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.546 ng/Kg	0.546U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.327 ng/Kg	0.327U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.932 ng/Kg	0.932U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.539 ng/Kg	0.539U ng/Kg
SL-240-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.130 ng/Kg	0.130U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.814 ng/Kg	0.814U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.585 ng/Kg	0.585U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.701 ng/Kg	0.701U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.470 ng/Kg	0.470U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	1.11 ng/Kg	1.11U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.279 ng/Kg	0.279U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.324 ng/Kg	0.324U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.222 ng/Kg	0.222U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.546 ng/Kg	0.546U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.253 ng/Kg	0.253U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0594 ng/Kg	0.0594U ng/Kg
SL-309-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	4.16 ng/Kg	4.16U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.450 ng/Kg	0.450U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.317 ng/Kg	0.317U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.303 ng/Kg	0.303U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	1.07 ng/Kg	1.07U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.268 ng/Kg	0.268U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.759 ng/Kg	0.759U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.260 ng/Kg	0.260U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.158 ng/Kg	0.158U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.355 ng/Kg	0.355U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.364 ng/Kg	0.364U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-310-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0262 ng/Kg	0.0262U ng/Kg
SL-310-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.159 ng/Kg	0.159U ng/Kg
SL-311-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	1.29 ng/Kg	1.29U ng/Kg
SL-311-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.615 ng/Kg	0.615U ng/Kg
SL-311-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	1.00 ng/Kg	1.00U ng/Kg
SL-311-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.279 ng/Kg	0.279U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.851 ng/Kg	0.851U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	1.03 ng/Kg	1.03U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.582 ng/Kg	0.582U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.579 ng/Kg	0.579U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.226 ng/Kg	0.226U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.462 ng/Kg	0.462U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.212 ng/Kg	0.212U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.785 ng/Kg	0.785U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.286 ng/Kg	0.286U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0561 ng/Kg	0.0561U ng/Kg
SL-312-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0388 ng/Kg	0.0388U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
MOISTURE	4.1	3.4	19		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-120-SA5B-SS-0.0-0.5	DUP05-SA5B-QC-121410			
1,2,3,4,6,7,8-HPCDD	18.5	16.7	10	50.00	
1,2,3,4,6,7,8-HPCDF	4.62	4.47	3	50.00	
1,2,3,4,7,8,9-HPCDF	0.470	0.410	14	50.00	
1,2,3,4,7,8-HxCDD	0.237	0.228	4	50.00	
1,2,3,4,7,8-HXCDF	0.316	0.356	12	50.00	
1,2,3,6,7,8-HXCDD	0.657	0.572	14	50.00	
1,2,3,6,7,8-HXCDF	0.327	0.286	13	50.00	
1,2,3,7,8,9-HXCDD	0.523	0.535	2	50.00	
1,2,3,7,8,9-HXCDF	0.231	0.230	0	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.101	0.138	31	50.00	
1,2,3,7,8-PECDF	0.138	0.134	3	50.00	
2,3,4,6,7,8-HXCDF	0.483	0.541	11	50.00	
2,3,4,7,8-PECDF	0.265	0.300	12	50.00	
2,3,7,8-TCDF	0.121	0.0808	40	50.00	
OCDD	199	172	15	50.00	
OCDF	11.5	10.3	11	50.00	
2,3,7,8-TCDD	0.0355	1.04 U	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5B-QC-121410	1,2,3,4,6,7,8-HPCDF	JB	4.47	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.410	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.228	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.356	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.572	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.286	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.535	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.230	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.138	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.134	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.541	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.300	5.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0808	1.04	PQL	ng/Kg	
	OCDF	JB	10.3	10.4	PQL	ng/Kg	
SED-025-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.55	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.142	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.219	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.324	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.196	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.238	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0589	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.156	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.291	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.243	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.690	5.58	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.381	1.12	PQL	ng/Kg	
	OCDF	JB	2.27	11.2	PQL	ng/Kg	
SL-054-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.32	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	1.08	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.505	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.69	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.642	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.98	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.274	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.435	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.330	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.856	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.367	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0735	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0546	1.07	PQL	ng/Kg	
SL-098-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.578	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.364	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.239	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.00	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.305	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.922	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.151	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.214	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.287	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.421	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.147	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0639	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.15	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.795	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.400	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.14	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.588	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	1.63	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.282	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.412	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.424	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.755	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.148	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0802	1.04	PQL	ng/Kg	
SL-108-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.13	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.722	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.526	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.51	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.641	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.431	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.343	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.542	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.02	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.502	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0648	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.113	1.05	PQL	ng/Kg	
SL-109-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.812	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.553	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.435	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.38	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.461	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.967	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.314	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.245	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.247	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.772	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.376	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0406	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0866	1.06	PQL	ng/Kg	
SL-119-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.549	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.310	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.337	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.914	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.438	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.972	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.485	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.213	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.219	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.610	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.302	5.41	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0754	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-120-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.62	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.470	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.237	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.316	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.657	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.327	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.523	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.231	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.101	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.138	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.483	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.265	5.21	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0355	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.121	1.04	PQL	ng/Kg	
SL-121-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.20	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.826	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.124	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.181	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.314	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.176	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.438	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.330	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.701	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.160	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.201	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0222	1.06	PQL	ng/Kg	
	OCDF	JB	1.64	10.6	PQL	ng/Kg	
SL-122-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.25	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.205	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0834	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.217	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.422	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.209	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.741	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.527	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.121	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.344	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.278	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.255	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0224	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0494	1.06	PQL	ng/Kg	
	OCDF	JB	1.61	10.6	PQL	ng/Kg	
SL-123-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.94	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.46	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.70	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.84	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.83	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.647	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.07	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.00	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.16	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.23	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.159	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-124-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.05	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.06	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.862	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.93	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.759	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.43	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.773	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.542	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.841	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.840	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.831	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0882	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.373	1.05	PQL	ng/Kg	
SL-142-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.01	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.707	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.103	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0550	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0920	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.117	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0568	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0982	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0673	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0512	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.185	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0798	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0547	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0267	1.07	PQL	ng/Kg	
	OCDF	JBQ	1.67	10.7	PQL	ng/Kg	
SL-143-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.24	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.645	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0660	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0525	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0609	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.214	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0503	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.324	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.201	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0773	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0737	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0658	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0574	5.19	PQL	ng/Kg	
	OCDF	JB	1.39	10.4	PQL	ng/Kg	
SL-240-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.907	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.602	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.93	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.656	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.48	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.298	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.546	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.327	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.932	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.539	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.130	1.04	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX022 **Laboratory: LL**

EDD Filename: DX022_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-309-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.814	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.585	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.701	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.50	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.470	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.11	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.279	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.324	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.222	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.546	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.253	5.21	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0594	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0495	1.04	PQL	ng/Kg	
SL-310-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.16	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.450	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.317	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.303	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.07	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.268	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.759	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.260	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.158	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.355	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.364	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.299	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0262	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.159	1.05	PQL	ng/Kg	
	OCDF	JB	9.13	10.5	PQL	ng/Kg	
SL-311-SA5B-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	3.73	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.22	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.29	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.91	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.615	5.42	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	4.52	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.00	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.331	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.279	1.08	PQL	ng/Kg	
SL-312-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.851	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.03	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.582	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.12	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.579	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.93	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.226	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.462	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.212	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.785	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.286	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0561	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0388	1.05	PQL	ng/Kg	

LDC #: 25550J21

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: A
2nd Reviewer: A

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
		OCDD	> calibration range	SL-311-SA-SB-55-0.0-0.5	J (+)

Comments: See sample calculation verification worksheet for recalculations

SAMPLE DELIVERY GROUP

DX023

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Dec-2010	SED-023-SIV-SD-0.0-0.5	6164977	N	METHOD	1613B	III
14-Dec-2010	SL-002-SA5C-SB-4.0-5.0	6164970	N	METHOD	1613B	III
14-Dec-2010	SL-002-SA5C-SB-9.0-10.0	6164971	N	METHOD	1613B	III
14-Dec-2010	SED-022-SIV-SD-0.0-0.5	6164978	N	METHOD	1613B	III
14-Dec-2010	SL-004-SA5C-SB-4.0-5.0	6164974	N	METHOD	1613B	III
14-Dec-2010	SED-024-SIV-SD-0.0-0.5	6164976	N	METHOD	1613B	III
14-Dec-2010	SL-004-SA5C-SB-9.0-10.0	6164973	N	METHOD	1613B	III
14-Dec-2010	EB02-SA5B-121410	6164972	EB	METHOD	1613B	III
14-Dec-2010	SL-128-SA5B-SS-0.0-0.5	6164982	N	METHOD	1613B	III
14-Dec-2010	SL-129-SA5B-SS-0.0-0.5	6164981	N	METHOD	1613B	III
14-Dec-2010	SL-125-SA5B-SS-0.0-0.5	6164979	N	METHOD	1613B	III
14-Dec-2010	SL-126-SA5B-SS-0.0-0.5	6164980	N	METHOD	1613B	III
14-Dec-2010	SL-140-SA5C-SB-3.0-4.0	6164975	N	METHOD	1613B	III
14-Dec-2010	SED-026-SIV-SD-0.0-0.5	6164984	N	METHOD	1613B	III
14-Dec-2010	SED-027-SIV-SD-0.0-0.5	6164983	N	METHOD	1613B	III
14-Dec-2010	SL-060-SA5C-SB-10.0-11.0	6164985	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB02-SA5B-121410 *Collected:* 12/14/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JBQ	0.302	MDL	9.82	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.40	JBQ	0.118	MDL	9.82	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.257	JBQ	0.141	MDL	9.82	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.317	JBQ	0.224	MDL	9.82	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.429	JBQ	0.171	MDL	9.82	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.244	JBQ	0.169	MDL	9.82	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.633	JBQ	0.175	MDL	9.82	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.387	JBQ	0.193	MDL	9.82	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.432	JBQ	0.163	MDL	9.82	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.707	JBQ	0.164	MDL	9.82	PQL	pg/L	U	B
2,3,7,8-TCDD	0.919	U	0.919	MDL	1.96	PQL	pg/L	UJ	I
OCDD	3.54	JBQ	0.345	MDL	19.6	PQL	pg/L	U	B
OCDF	1.35	JBQ	0.309	MDL	19.6	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-022-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.68	JB	0.0724	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.986	JB	0.0528	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.858	JB	0.0446	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.06	JB	0.0385	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.93	JB	0.0527	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.176	JB	0.0553	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.532	JB	0.0801	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.657	JB	0.0258	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.35	JB	0.0424	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.792	JB	0.0267	MDL	5.41	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.184	JB	0.0335	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.473	JB	0.0584	MDL	1.08	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory:** LL

EDD Filename: DX023_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-023-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 9:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.10	JB	0.0324	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.994	JB	0.0165	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.132	JBQ	0.0270	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.223	JB	0.0243	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.260	JB	0.0177	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.421	JB	0.0252	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JB	0.0149	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.391	JB	0.0233	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.117	JB	0.0192	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.310	JB	0.0496	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.307	JBQ	0.0185	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.238	JB	0.0169	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.570	JB	0.0187	MDL	5.61	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.133	JBQ	0.0315	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.366	JBQ	0.0478	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	1.53	JB	0.0288	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SED-024-SIV-SD-0.0-0.5 *Collected:* 12/14/2010 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.00	JB	0.0328	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.22	JB	0.0167	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.119	JB	0.0294	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.159	JB	0.0253	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.219	JB	0.0170	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.441	JB	0.0267	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.232	JB	0.0143	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.430	JB	0.0267	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0859	JBQ	0.0208	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.333	JBQ	0.0529	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.275	JB	0.0205	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.253	JB	0.0158	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.583	JB	0.0243	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0556	JB	0.0249	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.324	JB	0.0493	MDL	1.15	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory:** LL

EDD Filename: DX023_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-024-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 11:16:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	2.24	JB	0.0292	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SED-026-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.727	JB	0.0302	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.684	JB	0.0223	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.673	JB	0.0182	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.59	JB	0.0227	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.673	JB	0.0151	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.60	JB	0.0213	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.377	JB	0.0202	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.376	JBQ	0.0331	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.91	JB	0.0142	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.683	JB	0.0173	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.871	JB	0.0147	MDL	5.80	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0512	JBQ	0.0133	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.426	JB	0.0383	MDL	1.16	PQL	ng/Kg	J	Z

Sample ID: SED-027-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.24	JB	0.0363	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.489	JB	0.0666	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.220	JB	0.0481	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.418	JB	0.0505	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.721	JB	0.0502	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.387	JB	0.0427	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.471	JB	0.0476	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.375	JB	0.0602	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.162	JBQ	0.0573	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.588	JB	0.0301	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.353	JB	0.0473	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.736	JB	0.0313	MDL	5.79	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.141	JB	0.0358	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.384	JBQ	0.0671	MDL	1.16	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory:** LL

EDD Filename: DX023_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-027-SIV-SD-0.0-0.5 ***Collected:*** 12/14/2010 3:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	8.78	JB	0.0550	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-002-SA5C-SB-4.0-5.0 ***Collected:*** 12/14/2010 9:42:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.233	JBQ	0.0322	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.172	JB	0.0154	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0860	JBQ	0.0220	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0426	JB	0.0155	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JB	0.0242	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0577	JBQ	0.0143	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.141	JB	0.0244	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0878	JBQ	0.0186	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0805	JBQ	0.0271	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0462	JBQ	0.0107	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0787	JB	0.0148	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0561	JB	0.0106	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0226	JBQ	0.0184	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0199	JBQ	0.0167	MDL	1.07	PQL	ng/Kg	U	B
OCDD	0.786	JB	0.0433	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.207	JB	0.0350	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA5C-SB-9.0-10.0 ***Collected:*** 12/14/2010 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.277	JBQ	0.0257	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.119	JB	0.00996	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0608	JB	0.0174	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0267	JBQ	0.0196	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0487	JB	0.0150	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0815	JB	0.0198	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0378	JB	0.0122	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.139	JB	0.0190	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.160	JB	0.0168	MDL	6.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0438	JBQ	0.00852	MDL	6.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0442	JB	0.0139	MDL	6.00	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory:** LL

EDD Filename: DX023_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-002-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0560	JB	0.00912	MDL	6.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0192	JBQ	0.0154	MDL	1.20	PQL	ng/Kg	U	B
OCDD	1.30	JB	0.0373	MDL	12.0	PQL	ng/Kg	U	B
OCDF	0.169	JBQ	0.0365	MDL	12.0	PQL	ng/Kg	U	B

Sample ID: SL-004-SA5C-SB-4.0-5.0 *Collected:* 12/14/2010 11:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.176	JBQ	0.0248	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JBQ	0.00979	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0625	JB	0.0169	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0166	JBQ	0.0136	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0414	JB	0.0113	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0419	JBQ	0.0140	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0260	JBQ	0.00943	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0354	JBQ	0.0136	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0640	JBQ	0.0138	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0394	JBQ	0.0107	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0602	JB	0.00895	MDL	5.97	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0194	JBQ	0.0172	MDL	1.19	PQL	ng/Kg	U	B
OCDD	0.629	JBQ	0.0368	MDL	11.9	PQL	ng/Kg	U	B
OCDF	0.148	JBQ	0.0298	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-004-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 11:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.407	JB	0.0300	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.234	JBQ	0.0117	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0830	JBQ	0.0218	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0292	JBQ	0.0202	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0588	JBQ	0.0160	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.105	JBQ	0.0206	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0610	JBQ	0.0133	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.179	JBQ	0.0210	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.176	JB	0.0212	MDL	6.01	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0388	JBQ	0.0296	MDL	6.01	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX023 Laboratory: LL

EDD Filename: DX023_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-004-SA5C-SB-9.0-10.0 *Collected:* 12/14/2010 11:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0580	JBQ	0.0105	MDL	6.01	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.107	JBQ	0.0154	MDL	6.01	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0956	JBQ	0.0114	MDL	6.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0294	JB	0.0213	MDL	1.20	PQL	ng/Kg	U	B
OCDD	2.29	JB	0.0376	MDL	12.0	PQL	ng/Kg	U	B
OCDF	0.329	JB	0.0425	MDL	12.0	PQL	ng/Kg	U	B

Sample ID: SL-060-SA5C-SB-10.0-11.0 *Collected:* 12/14/2010 4:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.38	JB	0.0257	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.304	JBQ	0.0156	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0571	JBQ	0.0281	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0317	JBQ	0.0181	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0766	JBQ	0.0172	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JB	0.0186	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0531	JB	0.0145	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.155	JBQ	0.0188	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.132	JBQ	0.0202	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0657	JBQ	0.0230	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0816	JB	0.00907	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0566	JB	0.0161	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JBQ	0.00987	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0302	JB	0.0161	MDL	1.15	PQL	ng/Kg	U	B
OCDF	0.536	JBQ	0.0269	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-125-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.91	JB	0.0560	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.57	JB	0.0528	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.887	JB	0.0445	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.86	JB	0.0551	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.54	JB	0.0367	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.20	JB	0.0520	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.718	JBQ	0.0526	MDL	5.28	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory:** LL

EDD Filename: DX023_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-125-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.843	JB	0.0570	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.659	JB	0.0226	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.22	JB	0.0422	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.641	JB	0.0235	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.135	JBQ	0.0262	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.276	JBQ	0.0508	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-126-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.06	JB	0.0546	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.87	JB	0.0440	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.23	JB	0.0328	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.75	JB	0.0297	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.99	JB	0.0459	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.685	JB	0.0385	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.942	JB	0.0524	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.765	JB	0.0192	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.23	JB	0.0317	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.742	JB	0.0194	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.126	JB	0.0193	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.318	JB	0.0446	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA5B-SS-0.0-0.5 ***Collected:*** 12/14/2010 1:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.01	JB	0.0405	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.09	JB	0.0284	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.674	JB	0.0279	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.18	JB	0.0292	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.746	JB	0.0234	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.57	JB	0.0290	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.640	JB	0.0351	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.614	JB	0.0358	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.463	JB	0.0160	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.796	JB	0.0262	MDL	5.30	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-128-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.679	JB	0.0173	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0810	JBQ	0.0186	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.293	JB	0.0385	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-129-SA5B-SS-0.0-0.5 *Collected:* 12/14/2010 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.08	JB	0.0561	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.48	JB	0.0545	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.48	JB	0.0468	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.15	JB	0.0626	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.94	JB	0.0523	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.687	JB	0.0197	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.93	JB	0.0504	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.839	JB	0.0202	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.166	JBQ	0.0211	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.330	JB	0.0439	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	11200	EB	0.143	MDL	10.6	PQL	ng/Kg	J	*XI

Sample ID: SL-140-SA5C-SB-3.0-4.0 *Collected:* 12/14/2010 2:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.117	JB	0.0288	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JB	0.0140	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0727	JB	0.0253	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0325	JBQ	0.0155	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0200	JBQ	0.0131	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0405	JBQ	0.0201	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0537	JB	0.0210	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0234	JBQ	0.0120	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0404	JBQ	0.0147	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0581	JBQ	0.0125	MDL	5.56	PQL	ng/Kg	U	B
OCDD	0.507	JBQ	0.0492	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.189	JBQ	0.0436	MDL	11.1	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX023

EDD Filename: DX023_v1.

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX023

Method Blank Outlier Report

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371629	12/30/2010 4:29:00 PM	1,2,3,4,6,7,8-HPCDD	1.35 pg/L	EB02-SA5B-121410
		1,2,3,4,6,7,8-HPCDF	1.41 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.582 pg/L	
		1,2,3,4,7,8-HxCDD	0.485 pg/L	
		1,2,3,4,7,8-HXCDF	0.599 pg/L	
		1,2,3,6,7,8-HXCDD	0.512 pg/L	
		1,2,3,6,7,8-HXCDF	0.568 pg/L	
		1,2,3,7,8,9-HXCDD	0.483 pg/L	
		1,2,3,7,8,9-HXCDF	0.637 pg/L	
		1,2,3,7,8-PECDD	0.684 pg/L	
		1,2,3,7,8-PECDF	0.474 pg/L	
		2,3,4,6,7,8-HXCDF	0.505 pg/L	
		2,3,4,7,8-PECDF	0.810 pg/L	
		2,3,7,8-TCDD	2.81 pg/L	
		2,3,7,8-TCDF	0.181 pg/L	
		OCDD	2.39 pg/L	
		OCDF	1.43 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB02-SA5B-121410(RES)	1,2,3,4,6,7,8-HPCDD	1.24 pg/L	1.24U pg/L
EB02-SA5B-121410(RES)	1,2,3,4,6,7,8-HPCDF	1.40 pg/L	1.40U pg/L
EB02-SA5B-121410(RES)	1,2,3,4,7,8,9-HPCDF	0.257 pg/L	0.257U pg/L
EB02-SA5B-121410(RES)	1,2,3,4,7,8-HxCDD	0.317 pg/L	0.317U pg/L
EB02-SA5B-121410(RES)	1,2,3,4,7,8-HXCDF	0.429 pg/L	0.429U pg/L
EB02-SA5B-121410(RES)	1,2,3,6,7,8-HXCDF	0.244 pg/L	0.244U pg/L
EB02-SA5B-121410(RES)	1,2,3,7,8,9-HXCDF	0.633 pg/L	0.633U pg/L
EB02-SA5B-121410(RES)	1,2,3,7,8-PECDF	0.387 pg/L	0.387U pg/L
EB02-SA5B-121410(RES)	2,3,4,6,7,8-HXCDF	0.432 pg/L	0.432U pg/L
EB02-SA5B-121410(RES)	2,3,4,7,8-PECDF	0.707 pg/L	0.707U pg/L
EB02-SA5B-121410(RES)	OCDD	3.54 pg/L	3.54U pg/L
EB02-SA5B-121410(RES)	OCDF	1.35 pg/L	1.35U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371610	1/15/2011 4:10:00 PM	1,2,3,4,6,7,8-HPCDD	0.225 ng/Kg	SED-022-SIV-SD-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.149 ng/Kg	SED-023-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	SED-024-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0533 ng/Kg	SED-026-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0754 ng/Kg	SED-027-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0419 ng/Kg	SL-002-SA5C-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0628 ng/Kg	SL-002-SA5C-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0658 ng/Kg	SL-004-SA5C-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.161 ng/Kg	SL-004-SA5C-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0679 ng/Kg	SL-060-SA5C-SB-10.0-11.0
		1,2,3,7,8-PECDF	0.0507 ng/Kg	SL-125-SA5B-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0900 ng/Kg	SL-126-SA5B-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0914 ng/Kg	SL-128-SA5B-SS-0.0-0.5
		2,3,7,8-TCDD	0.0282 ng/Kg	SL-129-SA5B-SS-0.0-0.5
		2,3,7,8-TCDF	0.0270 ng/Kg	SL-140-SA5C-SB-3.0-4.0
		OCDD	0.570 ng/Kg	
		OCDF	0.344 ng/Kg	

Method Blank Outlier Report

Lab Reporting Batch ID: DX023 Laboratory: LL

EDD Filename: DX023_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-022-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.223 ng/Kg	0.223U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.260 ng/Kg	0.260U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.310 ng/Kg	0.310U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.238 ng/Kg	0.238U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDD	0.133 ng/Kg	0.133U ng/Kg
SED-023-SIV-SD-0.0-0.5(RES)	OCDF	1.53 ng/Kg	1.53U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.159 ng/Kg	0.159U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0859 ng/Kg	0.0859U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.333 ng/Kg	0.333U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.253 ng/Kg	0.253U ng/Kg
SED-024-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDD	0.0556 ng/Kg	0.0556U ng/Kg
SED-026-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.377 ng/Kg	0.377U ng/Kg
SED-026-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDD	0.0512 ng/Kg	0.0512U ng/Kg
SED-027-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.489 ng/Kg	0.489U ng/Kg
SED-027-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.220 ng/Kg	0.220U ng/Kg
SED-027-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.375 ng/Kg	0.375U ng/Kg
SED-027-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.182 ng/Kg	0.162U ng/Kg
SED-027-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.353 ng/Kg	0.353U ng/Kg
SED-027-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDD	0.141 ng/Kg	0.141U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.233 ng/Kg	0.233U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.141 ng/Kg	0.141U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0876 ng/Kg	0.0878U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0805 ng/Kg	0.0805U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0787 ng/Kg	0.0787U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0199 ng/Kg	0.0199U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA5C-SB-4.0-5.0(RES)	OCDD	0.786 ng/Kg	0.786U ng/Kg
SL-002-SA5C-SB-4.0-5.0(RES)	OCDF	0.207 ng/Kg	0.207U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.277 ng/Kg	0.277U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0608 ng/Kg	0.0608U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0815 ng/Kg	0.0815U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0442 ng/Kg	0.0442U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0192 ng/Kg	0.0192U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	OCDD	1.30 ng/Kg	1.30U ng/Kg
SL-002-SA5C-SB-9.0-10.0(RES)	OCDF	0.169 ng/Kg	0.169U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.176 ng/Kg	0.176U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0166 ng/Kg	0.0166U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0260 ng/Kg	0.0260U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0354 ng/Kg	0.0354U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	OCDD	0.629 ng/Kg	0.629U ng/Kg
SL-004-SA5C-SB-4.0-5.0(RES)	OCDF	0.148 ng/Kg	0.148U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.407 ng/Kg	0.407U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.234 ng/Kg	0.234U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	0.0292U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0588 ng/Kg	0.0588U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.105 ng/Kg	0.105U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.179 ng/Kg	0.179U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.176 ng/Kg	0.176U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0386 ng/Kg	0.0388U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0956 ng/Kg	0.0956U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	OCDD	2.29 ng/Kg	2.29U ng/Kg
SL-004-SA5C-SB-9.0-10.0(RES)	OCDF	0.329 ng/Kg	0.329U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,4,6,7,8-HPCDF	0.304 ng/Kg	0.304U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0571 ng/Kg	0.0571U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,4,7,8-HxCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,4,7,8-HXCDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,6,7,8-HXCDF	0.0531 ng/Kg	0.0531U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,7,8,9-HXCDD	0.155 ng/Kg	0.155U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,7,8,9-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,7,8-PECDD	0.0657 ng/Kg	0.0657U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	1,2,3,7,8-PECDF	0.0816 ng/Kg	0.0816U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	2,3,4,6,7,8-HXCDF	0.0566 ng/Kg	0.0566U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	2,3,7,8-TCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-060-SA5C-SB-10.0-11.0(RES)	OCDF	0.536 ng/Kg	0.536U ng/Kg
SL-125-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.718 ng/Kg	0.718U ng/Kg
SL-125-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.135 ng/Kg	0.135U ng/Kg
SL-126-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.685 ng/Kg	0.685U ng/Kg
SL-126-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.126 ng/Kg	0.126U ng/Kg
SL-128-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.640 ng/Kg	0.640U ng/Kg
SL-128-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0810 ng/Kg	0.0810U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.117 ng/Kg	0.117U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0200 ng/Kg	0.0200U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0405 ng/Kg	0.0405U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0234 ng/Kg	0.0234U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0581 ng/Kg	0.0581U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	OCDD	0.507 ng/Kg	0.507U ng/Kg
SL-140-SA5C-SB-3.0-4.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg

Internal Standard Outlier Report

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB02-SA5B-121410	13C-1,2,7,8-TCDD (CRS) 13C-2,3,7,8-TCDD	22 11	35.00-197.00 25.00-164.00	2,3,7,8-TCDD	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX023 Laboratory: LL

EDD Filename: DX023_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB02-SA5B-121410	1,2,3,4,6,7,8-HPCDD	JBQ	1.24	9.82	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.40	9.82	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.257	9.82	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.317	9.82	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.429	9.82	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.244	9.82	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.633	9.82	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.387	9.82	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.432	9.82	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.707	9.82	PQL	pg/L	
	OCDD	JBQ	3.54	19.6	PQL	pg/L	
	OCDF	JBQ	1.35	19.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-022-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.68	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.986	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.858	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.06	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.93	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.176	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.532	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.657	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.35	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.792	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.184	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.473	1.08	PQL	ng/Kg	
SED-023-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.10	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.994	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.132	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.223	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.260	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.421	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.391	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.117	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.310	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.307	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.238	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.570	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.133	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.366	1.12	PQL	ng/Kg	
	OCDF	JB	1.53	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-024-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.00	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.22	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.119	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.159	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.219	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.441	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.232	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.430	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0859	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.333	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.275	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.253	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.583	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0556	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.324	1.15	PQL	ng/Kg	
	OCDF	JB	2.24	11.5	PQL	ng/Kg	
SED-026-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.727	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.684	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.673	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.59	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.673	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.60	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.377	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.376	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.91	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.683	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.871	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0512	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.426	1.16	PQL	ng/Kg	
SED-027-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.24	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.489	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.220	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.418	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.721	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.387	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.471	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.375	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.162	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.588	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.353	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.736	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.141	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.384	1.16	PQL	ng/Kg	
	OCDF	JB	8.78	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5C-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.233	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.172	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0860	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0426	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0577	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.141	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0878	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0805	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0462	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0787	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0561	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0226	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0199	1.07	PQL	ng/Kg	
	OCDD	JB	0.786	10.7	PQL	ng/Kg	
	OCDF	JB	0.207	10.7	PQL	ng/Kg	
SL-002-SA5C-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.277	6.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.119	6.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0608	6.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0267	6.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0487	6.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0815	6.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0378	6.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.139	6.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.160	6.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0438	6.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0442	6.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0560	6.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0192	1.20	PQL	ng/Kg	
	OCDD	JB	1.30	12.0	PQL	ng/Kg	
	OCDF	JBQ	0.169	12.0	PQL	ng/Kg	
SL-004-SA5C-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.176	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.104	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0625	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0166	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0414	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0419	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0260	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0354	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0640	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0394	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0602	5.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0194	1.19	PQL	ng/Kg	
	OCDD	JBQ	0.629	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.148	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5C-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.407	6.01	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.234	6.01	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0830	6.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0292	6.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0588	6.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.105	6.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0610	6.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.179	6.01	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.176	6.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0388	6.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0580	6.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.107	6.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0956	6.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0294	1.20	PQL	ng/Kg	
	OCDD	JB	2.29	12.0	PQL	ng/Kg	
	OCDF	JB	0.329	12.0	PQL	ng/Kg	
SL-060-SA5C-SB-10.0-11.0	1,2,3,4,6,7,8-HPCDD	JB	1.38	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.304	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0571	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0317	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0766	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0531	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.155	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.132	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0657	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0816	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0566	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.114	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0302	1.15	PQL	ng/Kg	
	OCDF	JBQ	0.536	11.5	PQL	ng/Kg	
SL-125-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.91	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.57	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.887	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.86	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.54	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.20	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.718	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.843	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.659	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.22	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.641	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.135	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.276	1.06	PQL	ng/Kg	
SL-126-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.06	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.87	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.23	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.75	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.99	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.685	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.942	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.765	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.23	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.742	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.126	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.318	1.05	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX023 **Laboratory: LL**

EDD Filename: DX023_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.01	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.09	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.674	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.18	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.746	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.57	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.640	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.614	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.463	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.796	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.679	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0810	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.293	1.06	PQL	ng/Kg	
SL-129-SA5B-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	4.08	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.48	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.48	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.15	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.94	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.687	5.28	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	3.93	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.839	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.166	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.330	1.06	PQL	ng/Kg	
SL-140-SA5C-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.117	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.108	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0727	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0325	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0200	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0405	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0537	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0234	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0404	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0581	5.56	PQL	ng/Kg	
	OCDD	JBQ	0.507	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.189	11.1	PQL	ng/Kg	

LDC #: 25340821

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: AL
2nd Reviewer: TA

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N (N/A) Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N (N/A) Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
		OCDD	> calibration range	SL-129-SA5B-SS-0.0-0.5	J det / P

Comments: See sample calculation verification worksheet for recalculations

SAMPLE DELIVERY GROUP

DX024

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Dec-2010	SED-021-SIV-SD-0.0-0.5	6166118	N	METHOD	1613B	III
15-Dec-2010	SL-133-SA5B-SS-0.0-0.5	6166114	N	METHOD	1613B	III
15-Dec-2010	SL-134-SA5B-SS-0.0-0.5	6166117	N	METHOD	1613B	III
15-Dec-2010	SL-132-SA5B-SS-0.0-0.5	6166113	N	METHOD	1613B	III
15-Dec-2010	SL-135-SA5B-SS-0.0-0.5	6166116	N	METHOD	1613B	III
15-Dec-2010	SL-131-SA5B-SS-0.0-0.5	6166115	N	METHOD	1613B	III
15-Dec-2010	SED-018-SIV-SD-0.0-0.5	6166119	N	METHOD	1613B	III
15-Dec-2010	SL-257-SA5B-SS-0.0-0.5	6166130	N	METHOD	1613B	III
15-Dec-2010	SL-156-SA5B-SS-0.0-0.5	6166125	N	METHOD	1613B	III
15-Dec-2010	SED-016-SIV-SD-0.0-0.5	6166121	N	METHOD	1613B	III
15-Dec-2010	SL-155-SA5B-SS-0.0-0.5	6166123	N	METHOD	1613B	III
15-Dec-2010	SL-136-SA5B-SS-0.0-0.5	6166128	N	METHOD	1613B	III
15-Dec-2010	SL-153-SA5B-SS-0.0-0.5	6166122	N	METHOD	1613B	III
15-Dec-2010	SL-203-SA5B-SS-0.0-0.5	6166129	N	METHOD	1613B	III
15-Dec-2010	SL-150-SA5B-SS-0.0-0.5	6166126	N	METHOD	1613B	III
15-Dec-2010	SL-181-SA5B-SS-0.0-0.5	6166127	N	METHOD	1613B	III
15-Dec-2010	SL-149-SA5B-SS-0.0-0.5	6166124	N	METHOD	1613B	III
15-Dec-2010	SL-204-SA5B-SS-0.0-0.5	6166131	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-016-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 1:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.18	JB	0.0487	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.42	JB	0.0539	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.82	JB	0.0451	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.06	JB	0.0494	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.495	JBQ	0.0674	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.820	JQ	0.0609	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.363	JBQ	0.0208	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.66	JB	0.0528	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.247	JBQ	0.0225	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.120	JQ	0.0287	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0902	JBQ	0.0305	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	7800	EB	0.194	MDL	11.2	PQL	ng/Kg	J	*XI

Sample ID: SED-018-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 12:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.93	JB	0.0183	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.205	JB	0.0358	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.202	JBQ	0.0272	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.178	JB	0.0200	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.619	JB	0.0290	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.196	JBQ	0.0169	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.458	JBQ	0.0290	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.159	JBQ	0.0270	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.190	JQ	0.0296	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.260	JB	0.0144	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.249	JB	0.0191	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.461	JB	0.0156	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0408	JQ	0.0180	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JBQ	0.0342	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.78	JB	0.0404	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.816	JB	0.0403	MDL	5.27	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-021-SIV-SD-0.0-0.5 *Collected:* 12/15/2010 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.391	JBQ	0.0338	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.324	JB	0.0297	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.24	JB	0.0351	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.343	JB	0.0248	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.745	JB	0.0356	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0774	JBQ	0.0387	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.170	JQ	0.0409	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.192	JBQ	0.0148	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.513	JB	0.0278	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.165	JBQ	0.0158	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0453	JQ	0.0253	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0483	JB	0.0267	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-131-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.05	JB	0.0975	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.966	JB	0.0958	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.866	JB	0.0602	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.99	JB	0.0976	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.815	JB	0.0570	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.38	JB	0.101	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.498	JB	0.0653	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.537	JQ	0.0970	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.491	JB	0.0455	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.893	JB	0.0574	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.730	JB	0.0430	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0653	JQ	0.0590	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.209	JB	0.0565	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.59	JB	0.0364	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.285	JB	0.0456	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.574	JB	0.0409	MDL	5.63	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-132-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.469	JB	0.0358	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.04	JBQ	0.0412	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.289	JBQ	0.0346	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.775	JB	0.0358	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JBQ	0.0318	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.325	JQ	0.0500	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.337	JB	0.0609	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.343	JB	0.0319	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.851	JB	0.0586	MDL	5.63	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0517	JQ	0.0185	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.02	JB	0.0666	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-133-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.593	JB	0.0779	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.654	JB	0.0491	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.438	JBQ	0.0380	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.27	JB	0.0542	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.351	JB	0.0335	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.12	JB	0.0560	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.233	JB	0.0492	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.501	J	0.0472	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.182	JBQ	0.0458	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.536	JB	0.0385	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.875	JB	0.0441	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.161	J	0.0282	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.610	JB	0.0529	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.685	JB	0.0493	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.844	JB	0.0400	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.547	JB	0.0277	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.10	JB	0.0408	MDL	5.26	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 Laboratory: LL

EDD Filename: DX024_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-134-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.441	JB	0.0264	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.00	JB	0.0428	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.184	JB	0.0322	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.40	JQ	0.0638	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.359	JB	0.0229	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.551	JB	0.0267	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.510	JB	0.0196	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.857	J	0.0557	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.297	JB	0.0427	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-135-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 11:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	4.87	JB	0.0568	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.26	JB	0.0537	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.52	JB	0.0743	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	5.35	JQ	0.0884	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.38	JB	0.0392	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	5.26	JB	0.0554	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.74	JB	0.0354	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.801	J	0.0541	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.896	JBQ	0.0782	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	5210	EB	0.209	MDL	11.1	PQL	ng/Kg	J	*XI

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.32	JB	0.0581	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.24	JB	0.0393	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.20	JB	0.0394	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.26	JB	0.0409	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.08	JB	0.0395	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.05	JB	0.0416	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.794	JB	0.0438	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.719	J	0.0604	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.789	JB	0.0332	MDL	5.48	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-136-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	1.18	JB	0.0380	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.82	JB	0.0305	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0729	JQ	0.0359	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.791	JB	0.0660	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-149-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.16	JB	0.0384	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.921	JB	0.0276	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.752	JB	0.0233	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.52	JB	0.0283	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.861	JB	0.0221	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.03	JB	0.0285	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.281	JB	0.0259	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.461	J	0.0416	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.869	JB	0.0192	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.883	JB	0.0227	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.589	JB	0.0176	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0659	J	0.0201	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.282	JB	0.0410	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-150-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.94	JB	0.0326	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.39	JB	0.0295	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.60	JB	0.0283	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.07	JB	0.0346	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.444	JB	0.0352	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.697	J	0.0474	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.671	JB	0.0184	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.13	JB	0.0294	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.708	JB	0.0169	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0833	J	0.0218	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.277	JBQ	0.0367	MDL	1.05	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-153-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 2:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.02	JB	0.0501	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.53	JB	0.0281	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.47	JB	0.0273	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.38	JB	0.0259	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.44	JB	0.0291	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.874	JB	0.0302	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.14	J	0.0453	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.628	JB	0.0189	MDL	5.76	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.83	JB	0.0266	MDL	5.76	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.920	JB	0.0179	MDL	5.76	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.161	JQ	0.0212	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.461	JB	0.0440	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-155-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:41:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.35	JB	0.0169	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.222	JBQ	0.0307	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.182	JBQ	0.0239	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.202	JB	0.0182	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.24	JB	0.0245	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.234	JBQ	0.0159	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.22	JB	0.0247	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.391	JB	0.0249	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.298	JB	0.0117	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.262	JBQ	0.0182	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.275	JB	0.0123	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.137	JBQ	0.0253	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	4.59	JB	0.0307	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-156-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:32:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.99	JB	0.0456	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.84	JB	0.0410	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.85	JB	0.0364	MDL	5.37	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-156-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	2.20	JB	0.0331	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.11	JB	0.0429	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.686	JB	0.0454	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.43	J	0.0652	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.693	JB	0.0260	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.25	JB	0.0352	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.51	JB	0.0253	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.139	J	0.0258	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.573	JB	0.0707	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-181-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.686	JB	0.0711	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.801	JB	0.0858	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.488	JB	0.0523	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.90	JB	0.0821	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.383	JB	0.0526	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.08	JB	0.0747	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.603	JBQ	0.0725	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.540	J	0.0871	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.203	JB	0.0250	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.448	JB	0.0577	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.483	JBQ	0.0310	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.195	JB	0.0563	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-203-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.73	JB	0.0266	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.292	JBQ	0.0461	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.238	JB	0.0346	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.271	JBQ	0.0314	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.760	JB	0.0369	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.240	JBQ	0.0263	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.655	JB	0.0406	MDL	5.45	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-203-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.199	JB	0.0358	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.166	J	0.0367	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.483	JB	0.0167	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.238	JB	0.0300	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.197	JB	0.0172	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0484	JQ	0.0193	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0825	JBQ	0.0284	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	6.06	JB	0.0520	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-204-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 3:51:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.15	JB	0.0283	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.0347	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.204	JB	0.0250	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.173	JBQ	0.0188	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.724	JB	0.0290	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.226	JBQ	0.0185	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.554	JBQ	0.0272	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.116	JB	0.0212	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.181	JQ	0.0285	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.138	JB	0.0140	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.247	JB	0.0179	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.260	JB	0.0130	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0302	JQ	0.0183	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0681	JB	0.0188	MDL	1.07	PQL	ng/Kg	U	B
OCDF	10.0	JB	0.0374	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-257-SA5B-SS-0.0-0.5 ***Collected:*** 12/15/2010 1:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.86	JB	0.0383	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.63	JB	0.0314	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.77	JB	0.0272	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.40	JB	0.0324	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.16	JB	0.0257	MDL	5.56	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory:** LL

EDD Filename: DX024_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-257-SA5B-SS-0.0-0.5 *Collected:* 12/15/2010 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	3.15	JB	0.0317	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.863	JB	0.0294	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.851	J	0.0441	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.723	JB	0.0178	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.38	JB	0.0262	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.980	JB	0.0172	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.106	JQ	0.0169	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.367	JB	0.0377	MDL	1.11	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX024

Method Blank Outlier Report

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB370401	1/19/2011 4:01:00 AM	1,2,3,4,6,7,8-HPCDD	0.118 ng/Kg	SED-016-SIV-SD-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.117 ng/Kg	SED-018-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0646 ng/Kg	SED-021-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0156 ng/Kg	SL-131-SA5B-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0698 ng/Kg	SL-132-SA5B-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0249 ng/Kg	SL-133-SA5B-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0377 ng/Kg	SL-134-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0161 ng/Kg	SL-135-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0373 ng/Kg	SL-136-SA5B-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0239 ng/Kg	SL-149-SA5B-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0505 ng/Kg	SL-150-SA5B-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0586 ng/Kg	SL-153-SA5B-SS-0.0-0.5
		2,3,7,8-TCDF	0.0160 ng/Kg	SL-155-SA5B-SS-0.0-0.5
		OCDD	0.366 ng/Kg	SL-156-SA5B-SS-0.0-0.5
		OCDF	0.220 ng/Kg	SL-161-SA5B-SS-0.0-0.5
				SL-203-SA5B-SS-0.0-0.5
				SL-204-SA5B-SS-0.0-0.5
				SL-257-SA5B-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
SED-016-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.247 ng/Kg	0.247U ng/Kg
SED-018-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SED-018-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SED-018-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SED-018-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.249 ng/Kg	0.249U ng/Kg
SED-021-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.324 ng/Kg	0.324U ng/Kg
SED-021-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0774 ng/Kg	0.0774U ng/Kg
SED-021-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.165 ng/Kg	0.165U ng/Kg
SED-021-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-132-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.265 ng/Kg	0.285U ng/Kg
SL-132-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-134-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-155-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.222 ng/Kg	0.222U ng/Kg
SL-155-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-155-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.275 ng/Kg	0.275U ng/Kg
SL-203-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.292 ng/Kg	0.292U ng/Kg
SL-203-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.271 ng/Kg	0.271U ng/Kg
SL-203-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.238 ng/Kg	0.238U ng/Kg
SL-203-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-204-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.265 ng/Kg	0.265U ng/Kg
SL-204-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.173 ng/Kg	0.173U ng/Kg
SL-204-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-204-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.247 ng/Kg	0.247U ng/Kg
SL-204-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.260 ng/Kg	0.260U ng/Kg
SL-204-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0681 ng/Kg	0.0681U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-016-SIV-SD-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.18	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.42	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.82	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.06	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.495	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.820	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.363	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.66	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.247	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.120	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0902	1.12	PQL	ng/Kg	
SED-018-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.93	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.205	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.202	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.619	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.196	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.458	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.159	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.190	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.260	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.249	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.461	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0408	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.128	1.11	PQL	ng/Kg	
	OCDF	JB	8.78	11.1	PQL	ng/Kg	
SED-021-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.816	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.391	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.324	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.24	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.343	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.745	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0774	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.170	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.192	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.513	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.165	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0453	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0483	1.05	PQL	ng/Kg	
SL-131-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.05	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.966	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.866	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.99	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.815	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.38	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.498	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.537	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.491	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.893	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.730	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0653	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.209	1.05	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.59	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.285	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.574	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.469	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	1.04	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.289	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.775	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.180	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.325	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.337	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.343	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.851	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0517	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.02	1.13	PQL	ng/Kg	
SL-133-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.593	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.654	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.438	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.27	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.351	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.12	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.233	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.501	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.182	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.536	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.875	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.161	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.610	1.07	PQL	ng/Kg	
SL-134-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.685	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.844	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.547	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.10	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.441	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.00	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.184	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	1.40	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.359	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.551	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.510	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.857	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.297	1.05	PQL	ng/Kg	
SL-135-SA5B-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	4.87	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	4.26	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.52	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	5.35	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.38	5.56	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	5.26	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.74	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.801	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.896	1.11	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-136-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.32	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.24	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.20	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.26	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.08	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.05	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.794	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.719	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.789	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.18	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.82	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0729	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.791	1.10	PQL	ng/Kg	
SL-149-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.16	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.921	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.752	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.52	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.861	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.03	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.281	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.461	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.869	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.883	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.589	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0659	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.282	1.04	PQL	ng/Kg	
SL-150-SA5B-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	1.94	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.39	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.60	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.07	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.444	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.697	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.671	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.13	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.708	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0833	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.277	1.05	PQL	ng/Kg	
SL-153-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.02	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.53	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.47	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.38	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.44	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.874	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.14	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.628	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.83	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.920	5.76	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.161	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.461	1.15	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.35	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.222	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.182	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.202	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.24	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.234	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.22	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.391	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.298	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.262	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.275	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.137	1.04	PQL	ng/Kg	
	OCDF	JB	4.59	10.4	PQL	ng/Kg	
SL-156-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.99	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.84	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.85	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.20	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.11	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.686	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.43	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.693	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.25	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.51	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.139	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.573	1.07	PQL	ng/Kg	
SL-181-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.686	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.801	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.488	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.90	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.383	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.08	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.603	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.540	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.203	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.448	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.483	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.195	1.09	PQL	ng/Kg	
SL-203-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.73	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.292	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.238	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.271	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.760	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.240	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.655	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.199	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.166	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.483	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.238	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.197	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0484	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0825	1.09	PQL	ng/Kg	
	OCDF	JB	6.06	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX024 **Laboratory: LL**

EDD Filename: DX024_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-204-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.15	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.265	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.204	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.173	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.724	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.226	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.554	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.116	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.181	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.138	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.247	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.260	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0302	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0681	1.07	PQL	ng/Kg	
	OCDF	JB	10.0	10.7	PQL	ng/Kg	
SL-257-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.86	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.63	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.77	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.40	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.16	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.15	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.863	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.851	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.723	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.38	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.980	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.106	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.367	1.11	PQL	ng/Kg	

LDC #: 25550 K 21

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: A
2nd Reviewer: L

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
(Y) N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
		OCDD	7 calibration ranges	SL-135-SASB-SS-0.0-0.5	J dt/P
		↓		SED-0116-SIV-SD-0.0-0.5	↓

Comments: See sample calculation verification worksheet for recalculations

SAMPLE DELIVERY GROUP

DX026

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Dec-2010	SL-147-SA5B-SS-0.0-0.5	6167497	N	METHOD	1613B	III
16-Dec-2010	SL-178-SA5B-SS-0.0-0.5	6167502	N	METHOD	1613B	III
16-Dec-2010	SL-176-SA5B-SS-0.0-0.5	6167501	N	METHOD	1613B	III
16-Dec-2010	SED-019-SIV-SD-0.0-0.5	6167495	N	METHOD	1613B	III
16-Dec-2010	SED-017-SIV-SD-0.0-0.5	6167494	N	METHOD	1613B	III
16-Dec-2010	SL-186-SA5B-SS-0.0-0.5	6167503	N	METHOD	1613B	III
16-Dec-2010	SL-198-SA5B-SS-0.0-0.5	6167511	N	METHOD	1613B	III
16-Dec-2010	SL-192-SA5B-SS-0.0-0.5	6167508	N	METHOD	1613B	III
16-Dec-2010	SL-187-SA5B-SS-0.0-0.5	6167504	N	METHOD	1613B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5	6167505	N	METHOD	1613B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MS	6167506	MS	METHOD	1613B	III
16-Dec-2010	SL-189-SA5B-SS-0.0-0.5MSD	6167507	MSD	METHOD	1613B	III
16-Dec-2010	SED-020-SIV-SD-0.0-0.5	6167496	N	METHOD	1613B	III
16-Dec-2010	SL-173-SA5B-SS-0.0-0.5	6167500	N	METHOD	1613B	III
16-Dec-2010	SL-196-SA5B-SS-0.0-0.5	6167510	N	METHOD	1613B	III
16-Dec-2010	SL-199-SA5B-SS-0.0-0.5	6167512	N	METHOD	1613B	III
16-Dec-2010	SL-169-SA5B-SS-0.0-0.5	6167498	N	METHOD	1613B	III
16-Dec-2010	SL-194-SA5B-SS-0.0-0.5	6167509	N	METHOD	1613B	III
16-Dec-2010	SL-172-SA5B-SS-0.0-0.5	6167499	N	METHOD	1613B	III
16-Dec-2010	SED-011-SIV-SD-0.0-0.5	6167492	N	METHOD	1613B	III
16-Dec-2010	SL-202-SA5B-SS-0.0-0.5	6167513	N	METHOD	1613B	III
16-Dec-2010	SED-013-SIV-SD-0.0-0.5	6167493	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-011-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 2:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.49	JB	0.0166	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.462	JB	0.0233	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.511	JB	0.0213	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.391	JB	0.0192	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.40	JB	0.0225	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.342	JB	0.0173	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.06	JB	0.0219	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.132	JB	0.0209	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.432	JB	0.0523	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.307	JB	0.0160	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.436	JB	0.0191	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.515	JB	0.0161	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.120	J	0.0259	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.219	JB	0.0351	MDL	1.10	PQL	ng/Kg	U	B
OCDF	10.8	JB	0.0277	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SED-013-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 3:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.11	JB	0.0385	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.48	JB	0.0316	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.855	JB	0.0260	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.74	JB	0.0328	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.743	JB	0.0234	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.00	JB	0.0314	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.259	JB	0.0272	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.847	JBQ	0.0495	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.551	JB	0.0180	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.972	JB	0.0254	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.680	JB	0.0182	MDL	5.75	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0815	JQ	0.0213	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.355	JB	0.0380	MDL	1.15	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-017-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.16	JB	0.0563	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.07	JB	0.0350	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.31	JB	0.0347	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.35	JB	0.0314	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.15	JB	0.0353	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.332	JB	0.0388	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.963	JB	0.0547	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.661	JB	0.0247	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.20	JB	0.0345	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.11	JB	0.0245	MDL	5.65	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.190	J	0.0263	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.501	JB	0.0533	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SED-019-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	2.48	JB	0.153	MDL	6.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.86	JBQ	0.240	MDL	6.74	PQL	ng/Kg	J	Z
OCDD	24600	EB	0.396	MDL	13.5	PQL	ng/Kg	J	*XI

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.32	JBQ	0.210	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.51	JB	0.0601	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.31	JB	0.0466	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.40	JB	0.0440	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.322	JB	0.0536	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.07	JB	0.0914	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.971	JB	0.0286	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.26	JB	0.0448	MDL	5.43	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX026 Laboratory: LL

EDD Filename: DX026_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-020-SIV-SD-0.0-0.5 *Collected:* 12/16/2010 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
2,3,4,7,8-PECDF	0.802	JB	0.0286	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.284	JQ	0.0353	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.492	JBQ	0.0529	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-147-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.38	JB	0.148	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.06	JBQ	0.0596	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.30	JBQ	0.0441	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.50	JB	0.0612	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.39	JB	0.0423	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.99	JB	0.0611	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.445	JB	0.0497	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.19	JB	0.0800	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.05	JB	0.0294	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.61	JB	0.0428	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.02	JB	0.0284	MDL	5.72	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.141	JQ	0.0318	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.535	JB	0.0629	MDL	1.14	PQL	ng/Kg	J	Z

Sample ID: SL-169-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.36	JB	0.169	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.30	JB	0.0604	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.27	JB	0.0475	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.31	JB	0.0452	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.72	JB	0.0608	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.642	JBQ	0.0514	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.26	JB	0.0738	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.09	JB	0.0310	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.49	JB	0.0475	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.00	JB	0.0297	MDL	5.67	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0922	JQ	0.0341	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.425	JB	0.0634	MDL	1.13	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-172-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.02	JB	0.119	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.51	JB	0.0430	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.536	JB	0.0403	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.39	JB	0.0449	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.670	JB	0.0375	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.75	JB	0.0447	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.474	JB	0.0454	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.883	JB	0.0667	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.455	JB	0.0238	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.775	JB	0.0373	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.466	JB	0.0229	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.142	JQ	0.0287	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.225	JBQ	0.0484	MDL	1.06	PQL	ng/Kg	U	B

Sample ID: SL-173-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.47	JB	0.129	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.41	JB	0.0719	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.02	JB	0.0419	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.747	JB	0.0397	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.827	JB	0.0489	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.41	JB	0.0727	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.574	JB	0.0248	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.22	JB	0.0396	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.721	JB	0.0245	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0963	JQ	0.0265	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.216	JB	0.0439	MDL	1.07	PQL	ng/Kg	U	B
OCDD	16200	EB	0.248	MDL	10.7	PQL	ng/Kg	J	*XI

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.98	JB	0.134	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.58	JBQ	0.155	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.68	JB	0.103	MDL	5.26	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-176-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	5.20	JB	0.158	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.10	JB	0.0989	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.59	JB	0.158	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.31	JBQ	0.115	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.08	JBQ	0.249	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.46	JB	0.105	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.69	JB	0.103	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	6.42	B	0.261	MDL	1.05	PQL	ng/Kg		Z

Sample ID: SL-178-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	2.81	JB	0.214	MDL	6.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	5.60	JBQ	0.161	MDL	6.42	PQL	ng/Kg	J	Z
OCDD	15300	EB	0.571	MDL	12.8	PQL	ng/Kg	J	*XI

Sample ID: SL-186-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.31	JB	0.131	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.16	JB	0.136	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.511	JB	0.0850	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.51	JB	0.140	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.616	JB	0.0808	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.68	JB	0.140	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.419	JB	0.0992	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.507	JBQ	0.144	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.878	JB	0.0600	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.718	JBQ	0.0813	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.555	JB	0.0576	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.123	JQ	0.0592	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.191	JBQ	0.133	MDL	1.07	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX026 Laboratory: LL

EDD Filename: DX026_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-187-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.65	JB	0.198	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.60	JB	0.0660	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.32	JB	0.0665	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.876	J	0.0702	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.228	JB	0.136	MDL	1.06	PQL	ng/Kg	U	B
OCDD	23500	EB	0.434	MDL	10.6	PQL	ng/Kg	J	*XI

Sample ID: SL-189-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.570	JB	0.111	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.542	JBQ	0.0902	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.307	JBQ	0.0734	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.68	JB	0.0914	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.372	JBQ	0.0670	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.86	JB	0.0857	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.472	JBQ	0.0800	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.414	JBQ	0.0788	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.459	JB	0.0394	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.351	JB	0.0725	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.379	JBQ	0.0378	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0470	JQ	0.0424	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.102	JB	0.0725	MDL	1.07	PQL	ng/Kg	U	B
OCDD	508	B	0.115	MDL	10.7	PQL	ng/Kg	J	Q

Sample ID: SL-192-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	5.18	JB	0.171	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.04	JBQ	0.130	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.745	JBQ	0.132	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.22	JBQ	0.132	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.877	JB	0.121	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.18	JB	0.130	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.11	JB	0.140	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.537	JB	0.131	MDL	5.38	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-192-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 11:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.622	JB	0.128	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.45	JB	0.128	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.19	JBQ	0.119	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.126	JQ	0.0843	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-194-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.619	JBQ	0.0875	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.463	JB	0.0873	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.410	JB	0.0763	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.42	JB	0.0909	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.483	JB	0.0726	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.988	JBQ	0.0874	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.359	JB	0.0824	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.250	JBQ	0.0808	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.570	JB	0.0728	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.476	JB	0.0738	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.246	JB	0.0707	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.218	JB	0.113	MDL	1.11	PQL	ng/Kg	U	B

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.22	JB	0.0563	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.451	JB	0.0776	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.420	JB	0.0899	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.493	JBQ	0.0888	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.30	JB	0.0911	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.531	JB	0.0799	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.22	JB	0.0909	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.431	JB	0.0972	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.351	JBQ	0.0996	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.807	JB	0.0708	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.428	JB	0.0848	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.670	JB	0.0698	MDL	5.27	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-196-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.165	JBQ	0.122	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-198-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.12	JBQ	0.110	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.12	JB	0.123	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.560	JBQ	0.0973	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.67	JB	0.125	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.651	JB	0.0907	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.29	JBQ	0.130	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.405	JBQ	0.105	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.529	JB	0.128	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.544	JB	0.0598	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.727	JBQ	0.0923	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.642	JB	0.0567	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0909	J	0.0682	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.247	JB	0.112	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.84	JB	0.0466	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.423	JB	0.0631	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.319	JB	0.0796	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.393	JBQ	0.0676	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.26	JB	0.0840	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.652	JB	0.0590	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.37	JB	0.0812	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.456	JB	0.0738	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.294	JBQ	0.106	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.78	JB	0.0521	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.941	JB	0.0631	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.44	JB	0.0535	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0700	JQ	0.0502	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.161	JBQ	0.119	MDL	1.06	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory:** LL

EDD Filename: DX026_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-199-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	9.64	JB	0.0602	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-202-SA5B-SS-0.0-0.5 *Collected:* 12/16/2010 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.565	JB	0.0672	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.578	JBQ	0.113	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.351	JBQ	0.0792	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.71	JBQ	0.119	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.366	JBQ	0.0750	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.31	JB	0.119	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.376	JBQ	0.0818	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.351	JBQ	0.100	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.574	JB	0.0637	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.687	JB	0.0755	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.443	JB	0.0606	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0725	JQ	0.0701	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.194	JBQ	0.155	MDL	1.07	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*Xi	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX026

Method Blank Outlier Report

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB370343	1/21/2011 3:43:00 AM	1,2,3,4,6,7,8-HPCDD	0.172 ng/Kg	SED-011-SIV-SD-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.295 ng/Kg	SED-013-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0694 ng/Kg	SED-017-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0377 ng/Kg	SED-019-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0876 ng/Kg	SED-020-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0525 ng/Kg	SL-147-SA5B-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0702 ng/Kg	SL-169-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0432 ng/Kg	SL-172-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0636 ng/Kg	SL-173-SA5B-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0325 ng/Kg	SL-176-SA5B-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0530 ng/Kg	SL-178-SA5B-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.108 ng/Kg	SL-186-SA5B-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0835 ng/Kg	SL-187-SA5B-SS-0.0-0.5
		2,3,7,8-TCDF	0.0100 ng/Kg	SL-189-SA5B-SS-0.0-0.5
		OCDD	0.339 ng/Kg	SL-192-SA5B-SS-0.0-0.5
		OCDF	0.270 ng/Kg	SL-194-SA5B-SS-0.0-0.5
				SL-196-SA5B-SS-0.0-0.5
				SL-198-SA5B-SS-0.0-0.5
				SL-199-SA5B-SS-0.0-0.5
				SL-202-SA5B-SS-0.0-0.5
PBB371506	2/4/2011 3:06:00 PM	2,3,7,8-TCDF	0.0580 ng/Kg	SED-011-SIV-SD-0.0-0.5
				SED-013-SIV-SD-0.0-0.5
				SED-017-SIV-SD-0.0-0.5
				SED-019-SIV-SD-0.0-0.5
				SED-020-SIV-SD-0.0-0.5
				SL-147-SA5B-SS-0.0-0.5
				SL-169-SA5B-SS-0.0-0.5
				SL-172-SA5B-SS-0.0-0.5
				SL-173-SA5B-SS-0.0-0.5
				SL-176-SA5B-SS-0.0-0.5
				SL-178-SA5B-SS-0.0-0.5
				SL-186-SA5B-SS-0.0-0.5
				SL-187-SA5B-SS-0.0-0.5
				SL-189-SA5B-SS-0.0-0.5
				SL-192-SA5B-SS-0.0-0.5
				SL-194-SA5B-SS-0.0-0.5
				SL-196-SA5B-SS-0.0-0.5
				SL-198-SA5B-SS-0.0-0.5
				SL-199-SA5B-SS-0.0-0.5
				SL-202-SA5B-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
SED-011-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.391 ng/Kg	0.391U ng/Kg
SED-011-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.342 ng/Kg	0.342U ng/Kg
SED-011-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SED-011-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.436 ng/Kg	0.436U ng/Kg
SED-011-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDF	0.219 ng/Kg	0.219U ng/Kg
SED-013-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.259 ng/Kg	0.259U ng/Kg
SL-172-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.225 ng/Kg	0.225U ng/Kg
SL-173-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.216 ng/Kg	0.216U ng/Kg
SL-186-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.191 ng/Kg	0.191U ng/Kg
SL-187-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.228 ng/Kg	0.228U ng/Kg
SL-189-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.307 ng/Kg	0.307U ng/Kg
SL-189-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.351 ng/Kg	0.351U ng/Kg
SL-189-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.379 ng/Kg	0.379U ng/Kg
SL-189-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.102 ng/Kg	0.102U ng/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-194-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.410 ng/Kg	0.410U ng/Kg
SL-194-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.478 ng/Kg	0.476U ng/Kg
SL-194-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.246 ng/Kg	0.246U ng/Kg
SL-194-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.218 ng/Kg	0.218U ng/Kg
SL-196-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.428 ng/Kg	0.428U ng/Kg
SL-196-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.165 ng/Kg	0.165U ng/Kg
SL-198-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.247 ng/Kg	0.247U ng/Kg
SL-199-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.393 ng/Kg	0.393U ng/Kg
SL-199-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.161 ng/Kg	0.161U ng/Kg
SL-202-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.351 ng/Kg	0.351U ng/Kg
SL-202-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.194 ng/Kg	0.194U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-189-SA5B-SS-0.0-0.5MS SL-189-SA5B-SS-0.0-0.5MSD (SL-189-SA5B-SS-0.0-0.5)	OCDD	167	228	40.00-135.00	-	OCDD	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-011-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.49	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.462	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.511	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.391	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.40	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.342	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.132	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.432	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.307	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.436	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.515	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.120	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.219	1.10	PQL	ng/Kg	
	OCDF	JB	10.8	11.0	PQL	ng/Kg	
SED-013-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.11	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.48	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.855	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.74	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.743	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.00	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.259	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.847	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.551	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.972	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.680	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0815	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.355	1.15	PQL	ng/Kg	
SED-017-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.16	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.07	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.31	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.35	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.15	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.332	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.963	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.661	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.20	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.11	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.190	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.501	1.13	PQL	ng/Kg	
SED-019-SIV-SD-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	2.48	6.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	4.86	6.74	PQL	ng/Kg	
SED-020-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	4.32	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.51	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.31	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.40	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.322	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.07	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.971	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.26	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.802	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.284	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.492	1.09	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-147-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.38	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	2.06	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.30	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.50	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.39	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.99	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.445	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.19	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.05	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.61	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.02	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.141	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.535	1.14	PQL	ng/Kg	
SL-169-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.36	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.30	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.27	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.31	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.72	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.642	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.26	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.09	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.49	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.00	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0922	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.425	1.13	PQL	ng/Kg	
SL-172-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.02	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.51	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.536	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.39	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.670	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.75	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.474	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.883	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.455	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.775	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.466	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.142	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.225	1.06	PQL	ng/Kg	
SL-173-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.47	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.41	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.02	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.747	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.827	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.41	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.574	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.22	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.721	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0963	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.216	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-176-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.98	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	1.58	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.68	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.20	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.10	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.59	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	1.31	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	1.08	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.46	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.69	5.26	PQL	ng/Kg	
SL-178-SA5B-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	2.81	6.42	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JBQ	5.60	6.42	PQL	ng/Kg	
SL-186-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.31	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.16	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.511	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.51	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.616	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.68	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.419	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.507	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.878	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.718	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.555	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.123	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.191	1.07	PQL	ng/Kg	
SL-187-SA5B-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.65	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.60	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.32	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.876	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.228	1.06	PQL	ng/Kg	
SL-189-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.570	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.542	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.307	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.68	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.372	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.86	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.472	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.414	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.459	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.351	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.379	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0470	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.102	1.07	PQL	ng/Kg	
SL-192-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	5.18	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	1.04	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.745	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	4.22	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.877	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.18	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.11	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.537	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.622	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.45	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.19	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.126	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-194-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.619	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.463	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.410	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.42	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.483	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.988	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.359	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.250	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.570	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.476	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.246	5.54	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.218	1.11	PQL	ng/Kg	
SL-196-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.22	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.451	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.420	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.493	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.30	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.531	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.22	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.431	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.351	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.807	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.428	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.670	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.165	1.05	PQL	ng/Kg	
SL-198-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.12	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.12	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.560	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.67	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.651	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	2.29	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.405	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.529	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.544	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.727	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.642	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0909	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.247	1.07	PQL	ng/Kg	
SL-199-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.84	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.423	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.319	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.393	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.26	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.652	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.37	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.456	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.294	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.78	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.941	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.44	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0700	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.161	1.06	PQL	ng/Kg	
	OCDF	JB	9.64	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX026 **Laboratory: LL**

EDD Filename: DX026_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-202-SA5B-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.565	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.578	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.351	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	2.71	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.366	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.31	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.376	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.351	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.574	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.687	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.443	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0725	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.194	1.07	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX029

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Dec-2010	SED-014-SIV-SD-0.0-0.5	6169034	N	METHOD	1613B	IV
17-Dec-2010	SL-282-SA5B-SB-4.0-5.0	6169039	N	METHOD	1613B	IV
17-Dec-2010	SED-012-SIV-SD-0.0-0.5	6169035	N	METHOD	1613B	IV
17-Dec-2010	SL-282-SA5B-SB-7.0-8.0	6169040	N	METHOD	1613B	IV
17-Dec-2010	SED-004-SIV-SD-0.0-0.5	6169038	N	METHOD	1613B	IV
17-Dec-2010	SL-281-SA5B-SB-4.0-5.0	6169041	N	METHOD	1613B	IV
17-Dec-2010	EB05-SA5B-121710	6169032	EB	METHOD	1613B	IV
17-Dec-2010	EB01-SIV-121710	6169033	EB	METHOD	1613B	IV
17-Dec-2010	SL-281-SA5B-SB-8.0-9.0	6169042	N	METHOD	1613B	IV
17-Dec-2010	SED-001-SIV-SD-0.0-0.5	6169037	N	METHOD	1613B	IV
17-Dec-2010	DUP08-SA5B-QC-121710	6169031	FD	METHOD	1613B	IV
17-Dec-2010	SL-026-SA5B-SB-4.0-5.0	6169043	N	METHOD	1613B	IV
17-Dec-2010	SL-026-SA5B-SB-9.0-10	6169044	N	METHOD	1613B	IV
17-Dec-2010	SED-006-SIV-SD-0.0-0.5	6169036	N	METHOD	1613B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5	6172048	N	METHOD	1613B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MS	6172049	MS	METHOD	1613B	IV
20-Dec-2010	SED-005-SIV-SD-0.0-0.5MSD	6172050	MSD	METHOD	1613B	IV
20-Dec-2010	DUP01-SIV-QC-122010	6172046	FD	METHOD	1613B	IV
20-Dec-2010	SED-003-SIV-SD-0.0-0.5	6172047	N	METHOD	1613B	IV
20-Dec-2010	SED-008-SIV-SD-0.0-0.5	6172052	N	METHOD	1613B	IV
20-Dec-2010	SED-007-SIV-SD-0.0-0.6	6172051	N	METHOD	1613B	IV
20-Dec-2010	SED-037-SIV-SD-0.0-0.5	6172054	N	METHOD	1613B	IV
20-Dec-2010	SED-034-SIV-SD-0.0-0.5	6172053	N	METHOD	1613B	IV

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX029 Laboratory: LL

EDD Filename: PrepDX029_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB01-SIV-121710 *Collected:* 12/17/2010 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.91	JBQ	0.177	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.69	JB	0.0843	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.377	JBQ	0.0955	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.522	JB	0.113	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.185	JBQ	0.144	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.325	JBQ	0.107	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.194	JBQ	0.146	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.252	JBQ	0.108	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.529	JBQ	0.283	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.139	JBQ	0.114	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.283	JBQ	0.101	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.626	JB	0.0958	MDL	10.8	PQL	pg/L	U	B
2,3,7,8-TCDD	0.546	U	0.546	MDL	2.16	PQL	pg/L	UJ	I
OCDD	13.7	JB	0.197	MDL	21.6	PQL	pg/L	J	Z
OCDF	1.41	JBQ	0.198	MDL	21.6	PQL	pg/L	U	B

Sample ID: EB05-SA5B-121710 *Collected:* 12/17/2010 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.726	JBQ	0.214	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.18	JBQ	0.0890	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.193	JBQ	0.103	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.379	JBQ	0.114	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.332	JBQ	0.111	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.250	JBQ	0.179	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.355	JBQ	0.112	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.220	JBQ	0.146	MDL	10.9	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.344	JBQ	0.103	MDL	10.9	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.732	JB	0.120	MDL	10.9	PQL	pg/L	U	B
2,3,7,8-TCDD	2.31	U	2.31	MDL	2.31	PQL	pg/L	UJ	I
OCDD	1.35	JB	0.225	MDL	21.8	PQL	pg/L	U	B
OCDF	0.858	JBQ	0.233	MDL	21.8	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 Laboratory: LL

EDD Filename: PrepDX029_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP01-SIV-QC-122010 *Collected:* 12/20/2010 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.18	JB	0.0236	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0337	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.178	JBQ	0.0576	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.430	JB	0.0477	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.893	JBQ	0.0590	MDL	6.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.379	JB	0.0423	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.927	JB	0.0582	MDL	6.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.430	JB	0.0514	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.256	JB	0.0514	MDL	6.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.94	JB	0.0419	MDL	6.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.516	JB	0.0456	MDL	6.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.819	JB	0.0422	MDL	6.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0424	JQ	0.0395	MDL	1.26	PQL	ng/Kg	J	Z, FD
OCDF	3.65	JB	0.0494	MDL	12.6	PQL	ng/Kg	J	Z

Sample ID: DUP08-SA5B-QC-121710 *Collected:* 12/17/2010 2:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2720	EB	0.320	MDL	5.61	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	4.86	JB	0.198	MDL	5.61	PQL	ng/Kg	J	Z
OCDD	26800	EB	0.278	MDL	11.2	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 Laboratory: LL

EDD Filename: PrepDX029_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-001-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 12:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.60	JB	0.0356	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.421	JBQ	0.0485	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.500	JB	0.0714	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.12	JB	0.0610	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.56	JB	0.0747	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.03	JB	0.0576	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.21	JB	0.0709	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.563	JB	0.0625	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.673	JB	0.0596	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.66	JB	0.0580	MDL	5.69	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0787	J	0.0567	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	4.93	JB	0.0487	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SED-003-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 9:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.73	JB	0.0299	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.478	JBQ	0.0502	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.364	JB	0.0760	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.615	JB	0.0536	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.06	JB	0.0809	MDL	6.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.430	JB	0.0486	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.712	JB	0.0752	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.294	JB	0.0609	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.245	JB	0.0816	MDL	6.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.98	JB	0.0510	MDL	6.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.489	JB	0.0522	MDL	6.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.831	JBQ	0.0490	MDL	6.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.108	JQ	0.0541	MDL	1.35	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.719	JQ	0.124	MDL	1.35	PQL	ng/Kg	J	Z
OCDF	8.23	JB	0.0748	MDL	13.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-004-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 11:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.825	JB	0.0632	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.231	JB	0.0691	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.525	JB	0.0557	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.850	JB	0.0715	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.521	JB	0.0485	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.590	JB	0.0725	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.224	JB	0.0624	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.209	JBQ	0.0458	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.480	JB	0.0295	MDL	6.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.660	JB	0.0548	MDL	6.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.283	JB	0.0295	MDL	6.19	PQL	ng/Kg	U	B

Sample ID: SED-005-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.11	JB	0.0267	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.261	JBQ	0.0391	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.230	JB	0.0614	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.388	JBQ	0.0514	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.918	JB	0.0655	MDL	6.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.404	JBQ	0.0440	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.990	JB	0.0604	MDL	6.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.473	JB	0.0564	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.283	JBQ	0.0578	MDL	6.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.12	JB	0.0476	MDL	6.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.438	JB	0.0491	MDL	6.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.809	JB	0.0475	MDL	6.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0511	U	0.0511	MDL	1.24	PQL	ng/Kg	UJ	FD
OCDF	3.16	JB	0.0512	MDL	12.4	PQL	ng/Kg	J	Z

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.64	JB	0.0543	MDL	6.24	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-006-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.395	JBQ	0.0760	MDL	6.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.375	JB	0.0876	MDL	6.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.544	JB	0.0714	MDL	6.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.69	JB	0.0875	MDL	6.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.594	JB	0.0659	MDL	6.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.51	JB	0.0883	MDL	6.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.03	JB	0.0748	MDL	6.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.38	JB	0.0592	MDL	6.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.615	JB	0.0695	MDL	6.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.28	JB	0.0603	MDL	6.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0794	JQ	0.0486	MDL	1.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.10	J	0.147	MDL	1.25	PQL	ng/Kg	J	Z
OCDF	9.52	JB	0.0597	MDL	12.5	PQL	ng/Kg	J	Z

Sample ID: SED-007-SIV-SD-0.0-0.6 *Collected:* 12/20/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.00	JB	0.0529	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.782	JB	0.109	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.30	JB	0.142	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.45	JB	0.0945	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.80	JB	0.106	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.39	JB	0.0738	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.690	JB	0.0710	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.580	JBQ	0.0908	MDL	6.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.751	JB	0.0717	MDL	6.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.90	JB	0.0607	MDL	6.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.16	JB	0.0807	MDL	6.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.130	JQ	0.0521	MDL	1.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.307	J	0.166	MDL	1.22	PQL	ng/Kg	J	Z
OCDF	9.62	JB	0.0602	MDL	12.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory:** LL

EDD Filename: PrepDX029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-008-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.91	JB	0.0730	MDL	7.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.517	JBQ	0.0941	MDL	7.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.444	JBQ	0.102	MDL	7.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.673	JB	0.0743	MDL	7.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.37	JB	0.103	MDL	7.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.695	JB	0.0701	MDL	7.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.28	JB	0.100	MDL	7.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.331	JBQ	0.0874	MDL	7.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	3.10	JB	0.0749	MDL	7.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.653	JB	0.0738	MDL	7.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.17	JB	0.0719	MDL	7.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.10	J	0.158	MDL	1.49	PQL	ng/Kg	J	Z
OCDF	7.73	JB	0.119	MDL	14.9	PQL	ng/Kg	J	Z

Sample ID: SED-012-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.37	JB	0.0340	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.213	JB	0.0454	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.226	JBQ	0.0497	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.166	JBQ	0.0350	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.776	JB	0.0508	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.177	JBQ	0.0299	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.401	JB	0.0518	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0960	JB	0.0369	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.219	JBQ	0.0464	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.152	JBQ	0.0305	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.226	JBQ	0.0338	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.266	JBQ	0.0251	MDL	5.31	PQL	ng/Kg	U	B
OCDF	5.17	JB	0.0334	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4430	EB	0.410	MDL	5.88	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory:** LL

EDD Filename: PrepDX029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-014-SIV-SD-0.0-0.5 *Collected:* 12/17/2010 8:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	2.86	JB	0.235	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.80	JB	0.107	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.711	JB	0.0765	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.14	JB	0.0721	MDL	5.88	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.217	J	0.0620	MDL	1.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.384	JQ	0.111	MDL	1.18	PQL	ng/Kg	J	Z
OCDD	49800	EB	0.354	MDL	11.8	PQL	ng/Kg	J	*XI

Sample ID: SED-034-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.56	JB	0.0862	MDL	6.43	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.40	JB	0.0540	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.183	JBQ	0.0725	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.139	JBQ	0.0623	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.258	JBQ	0.0509	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.303	JBQ	0.0674	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.215	JB	0.0469	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.266	JB	0.0620	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.133	JBQ	0.0553	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0979	JB	0.0481	MDL	6.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0389	MDL	6.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.369	JB	0.0490	MDL	6.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.572	JB	0.0386	MDL	6.43	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.194	JQ	0.0753	MDL	1.29	PQL	ng/Kg	U	B
OCDF	2.13	JB	0.0815	MDL	12.9	PQL	ng/Kg	U	B

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.92	JB	0.0450	MDL	6.98	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.454	JB	0.0570	MDL	6.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.876	JB	0.0732	MDL	6.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.857	JB	0.0630	MDL	6.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	3.80	JB	0.0788	MDL	6.98	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-037-SIV-SD-0.0-0.5 *Collected:* 12/20/2010 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.664	JB	0.0589	MDL	6.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.40	JB	0.0728	MDL	6.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.353	JBQ	0.0656	MDL	6.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.903	JBQ	0.121	MDL	6.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.57	JB	0.0606	MDL	6.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.819	JB	0.0603	MDL	6.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	1.16	JB	0.0578	MDL	6.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.139	JQ	0.0807	MDL	1.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.19	J	0.152	MDL	1.40	PQL	ng/Kg	J	Z
OCDF	8.47	JB	0.0793	MDL	14.0	PQL	ng/Kg	J	Z

Sample ID: SL-026-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.324	JB	0.0399	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.422	JB	0.0181	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0561	JBQ	0.0252	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0382	JBQ	0.0290	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0737	JBQ	0.0201	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0518	JBQ	0.0292	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0466	JB	0.0181	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0703	JBQ	0.0229	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0710	JBQ	0.0445	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0306	JB	0.0214	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.117	JB	0.0202	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0833	JB	0.0217	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.25	JB	0.0466	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.430	JBQ	0.0520	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.293	JB	0.0418	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.425	JB	0.0195	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0481	JBQ	0.0246	MDL	5.46	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-026-SA5B-SB-9.0-10 *Collected:* 12/17/2010 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0869	JBQ	0.0237	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0607	JBQ	0.0324	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0610	JB	0.0226	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0935	JBQ	0.0308	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0646	JBQ	0.0262	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0558	JBQ	0.0381	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0518	JBQ	0.0203	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.160	JBQ	0.0230	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.108	JBQ	0.0202	MDL	5.46	PQL	ng/Kg	U	B
OCDD	1.26	JB	0.0464	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.365	JB	0.0471	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-281-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.625	JB	0.0600	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.454	JB	0.0231	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0894	JB	0.0309	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.130	JBQ	0.0276	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0948	JB	0.0387	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0748	JB	0.0243	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.109	JB	0.0370	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0329	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0767	JBQ	0.0294	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.127	JBQ	0.0270	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.135	JB	0.0307	MDL	5.97	PQL	ng/Kg	U	B
OCDD	2.34	JB	0.0472	MDL	11.9	PQL	ng/Kg	U	B
OCDF	0.399	JBQ	0.0613	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.797	JB	0.0628	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.491	JB	0.0225	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0860	JB	0.0322	MDL	5.71	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory:** LL

EDD Filename: PrepDX029_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-281-SA5B-SB-8.0-9.0 *Collected:* 12/17/2010 12:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0812	JB	0.0354	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.286	JB	0.0412	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0979	JBQ	0.0318	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.441	JB	0.0402	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.301	JB	0.0394	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0821	JB	0.0636	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0816	JBQ	0.0295	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.151	JBQ	0.0345	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.138	JBQ	0.0299	MDL	5.71	PQL	ng/Kg	U	B
OCDD	4.41	JB	0.0505	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.458	JBQ	0.0551	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-282-SA5B-SB-4.0-5.0 *Collected:* 12/17/2010 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.02	JB	0.0686	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.645	JB	0.0303	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0727	JBQ	0.0385	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0465	JBQ	0.0371	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.144	JBQ	0.0359	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.144	JB	0.0374	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.124	JBQ	0.0329	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.182	JBQ	0.0373	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.263	JB	0.0397	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0466	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.125	JB	0.0292	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.192	JBQ	0.0353	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.140	JBQ	0.0282	MDL	5.47	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0693	JQ	0.0575	MDL	1.09	PQL	ng/Kg	U	B
OCDF	0.785	JB	0.0617	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.415	JB	0.0482	MDL	5.48	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-282-SA5B-SB-7.0-8.0 *Collected:* 12/17/2010 10:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.469	JB	0.0237	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0590	JB	0.0308	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0353	JBQ	0.0318	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0919	JB	0.0283	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0973	JBQ	0.0345	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0951	JBQ	0.0254	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.146	JBQ	0.0323	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.152	JBQ	0.0304	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0757	JB	0.0255	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.142	JB	0.0280	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0842	JB	0.0244	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0826	JQ	0.0508	MDL	1.10	PQL	ng/Kg	U	B
OCDD	1.60	JB	0.0475	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.331	JBQ	0.0484	MDL	11.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: PrepDX029_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX029

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371629	12/30/2010 4:29:00 PM	1,2,3,4,6,7,8-HPCDD	1.35 pg/L	EB01-SIV-121710
		1,2,3,4,6,7,8-HPCDF	1.41 pg/L	EB05-SA5B-121710
		1,2,3,4,7,8,9-HPCDF	0.582 pg/L	
		1,2,3,4,7,8-HxCDD	0.485 pg/L	
		1,2,3,4,7,8-HXCDF	0.599 pg/L	
		1,2,3,6,7,8-HXCDD	0.512 pg/L	
		1,2,3,6,7,8-HXCDF	0.568 pg/L	
		1,2,3,7,8,9-HXCDD	0.483 pg/L	
		1,2,3,7,8,9-HXCDF	0.637 pg/L	
		1,2,3,7,8-PECDD	0.684 pg/L	
		1,2,3,7,8-PECDF	0.474 pg/L	
		2,3,4,6,7,8-HXCDF	0.505 pg/L	
		2,3,4,7,8-PECDF	0.810 pg/L	
		2,3,7,8-TCDD	2.81 pg/L	
		2,3,7,8-TCDF	0.181 pg/L	
		OCDD	2.39 pg/L	
		OCDF	1.43 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB01-SIV-121710(RES)	1,2,3,4,6,7,8-HPCDD	1.91 pg/L	1.91U pg/L
EB01-SIV-121710(RES)	1,2,3,4,8,7,8-HPCDF	1.69 pg/L	1.69U pg/L
EB01-SIV-121710(RES)	1,2,3,4,7,8,9-HPCDF	0.377 pg/L	0.377U pg/L
EB01-SIV-121710(RES)	1,2,3,4,7,8-HXCDF	0.522 pg/L	0.522U pg/L
EB01-SIV-121710(RES)	1,2,3,6,7,8-HXCDD	0.185 pg/L	0.185U pg/L
EB01-SIV-121710(RES)	1,2,3,6,7,8-HXCDF	0.325 pg/L	0.325U pg/L
EB01-SIV-121710(RES)	1,2,3,7,8,9-HXCDD	0.194 pg/L	0.194U pg/L
EB01-SIV-121710(RES)	1,2,3,7,8,9-HXCDF	0.252 pg/L	0.252U pg/L
EB01-SIV-121710(RES)	1,2,3,7,8-PECDD	0.529 pg/L	0.529U pg/L
EB01-SIV-121710(RES)	1,2,3,7,8-PECDF	0.139 pg/L	0.139U pg/L
EB01-SIV-121710(RES)	2,3,4,6,7,8-HXCDF	0.283 pg/L	0.283U pg/L
EB01-SIV-121710(RES)	2,3,4,7,8-PECDF	0.626 pg/L	0.626U pg/L
EB01-SIV-121710(RES)	OCDF	1.41 pg/L	1.41U pg/L
EB05-SA5B-121710(RES)	1,2,3,4,6,7,8-HPCDD	0.726 pg/L	0.726U pg/L
EB05-SA5B-121710(RES)	1,2,3,4,6,7,8-HPCDF	1.18 pg/L	1.18U pg/L
EB05-SA5B-121710(RES)	1,2,3,4,7,8,9-HPCDF	0.193 pg/L	0.193U pg/L
EB05-SA5B-121710(RES)	1,2,3,4,7,8-HXCDF	0.379 pg/L	0.379U pg/L
EB05-SA5B-121710(RES)	1,2,3,6,7,8-HXCDF	0.332 pg/L	0.332U pg/L
EB05-SA5B-121710(RES)	1,2,3,7,8,9-HXCDD	0.250 pg/L	0.250U pg/L
EB05-SA5B-121710(RES)	1,2,3,7,8,9-HXCDF	0.355 pg/L	0.355U pg/L
EB05-SA5B-121710(RES)	1,2,3,7,8-PECDF	0.220 pg/L	0.220U pg/L
EB05-SA5B-121710(RES)	2,3,4,6,7,8-HXCDF	0.344 pg/L	0.344U pg/L
EB05-SA5B-121710(RES)	2,3,4,7,8-PECDF	0.732 pg/L	0.732U pg/L
EB05-SA5B-121710(RES)	OCDD	1.35 pg/L	1.35U pg/L
EB05-SA5B-121710(RES)	OCDF	0.858 pg/L	0.858U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB372325	1/27/2011 11:25:00 PM	1,2,3,4,6,7,8-HPCDD	0.437 ng/Kg	DUP01-SIV-QC-122010
		1,2,3,4,6,7,8-HPCDF	1.49 ng/Kg	DUP08-SA5B-QC-121710
		1,2,3,4,7,8,9-HPCDF	0.200 ng/Kg	SED-001-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.147 ng/Kg	SED-003-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.209 ng/Kg	SED-004-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.162 ng/Kg	SED-005-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.226 ng/Kg	SED-006-SIV-SD-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.167 ng/Kg	SED-008-SIV-SD-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.206 ng/Kg	SED-012-SIV-SD-0.0-0.5
		1,2,3,7,8-PECDD	0.199 ng/Kg	SED-014-SIV-SD-0.0-0.5
		1,2,3,7,8-PECDF	0.199 ng/Kg	SED-034-SIV-SD-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.207 ng/Kg	SED-037-SIV-SD-0.0-0.5
		2,3,4,7,8-PECDF	0.230 ng/Kg	SL-026-SA5B-SB-4.0-5.0
		OCDD	1.37 ng/Kg	SL-026-SA5B-SB-9.0-10
		OCDF	0.495 ng/Kg	SL-281-SA5B-SB-4.0-5.0
				SL-281-SA5B-SB-8.0-9.0
				SL-282-SA5B-SB-4.0-5.0
				SL-282-SA5B-SB-7.0-8.0
BLK0320B372059	2/7/2011 8:59:00 PM	1,2,3,4,6,7,8-HPCDD	0.219 ng/Kg	SED-007-SIV-SD-0.0-0.6
		1,2,3,4,6,7,8-HPCDF	0.242 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0453 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0361 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0659 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0384 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0508 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0359 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0588 ng/Kg	
		1,2,3,7,8-PECDD	0.0510 ng/Kg	
		1,2,3,7,8-PECDF	0.0415 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0823 ng/Kg	
		2,3,4,7,8-PECDF	0.106 ng/Kg	
		OCDD	0.513 ng/Kg	
		OCDF	0.298 ng/Kg	
PBB371255	2/6/2011 12:55:00 PM	2,3,7,8-TCDF	0.0679 ng/Kg	DUP01-SIV-QC-122010
				DUP08-SA5B-QC-121710
				SED-001-SIV-SD-0.0-0.5
				SED-003-SIV-SD-0.0-0.5
				SED-004-SIV-SD-0.0-0.5
				SED-005-SIV-SD-0.0-0.5
				SED-006-SIV-SD-0.0-0.5
				SED-008-SIV-SD-0.0-0.5
				SED-012-SIV-SD-0.0-0.5
				SED-014-SIV-SD-0.0-0.5
				SED-034-SIV-SD-0.0-0.5
				SED-037-SIV-SD-0.0-0.5
				SL-026-SA5B-SB-4.0-5.0
				SL-026-SA5B-SB-9.0-10
				SL-281-SA5B-SB-4.0-5.0
				SL-281-SA5B-SB-8.0-9.0
				SL-282-SA5B-SB-4.0-5.0
				SL-282-SA5B-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
DUP01-SIV-QC-122010(RES)	1,2,3,4,6,7,8-HPCDF	2.18 ng/Kg	2.16U ng/Kg
DUP01-SIV-QC-122010(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
DUP01-SIV-QC-122010(RES)	1,2,3,4,7,8-HxCDD	0.178 ng/Kg	0.178U ng/Kg
DUP01-SIV-QC-122010(RES)	1,2,3,4,7,8-HXCDF	0.430 ng/Kg	0.430U ng/Kg
DUP01-SIV-QC-122010(RES)	1,2,3,6,7,8-HXCDF	0.379 ng/Kg	0.379U ng/Kg
DUP01-SIV-QC-122010(RES)	1,2,3,7,8,9-HXCDF	0.430 ng/Kg	0.430U ng/Kg
DUP01-SIV-QC-122010(RES)	1,2,3,7,8-PECDD	0.256 ng/Kg	0.256U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SIV-QC-122010(RES)	2,3,4,6,7,8-HXCDF	0.516 ng/Kg	0.516U ng/Kg
DUP01-SIV-QC-122010(RES)	2,3,4,7,8-PECDF	0.819 ng/Kg	0.819U ng/Kg
SED-001-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	4.60 ng/Kg	4.60U ng/Kg
SED-001-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.421 ng/Kg	0.421U ng/Kg
SED-001-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.500 ng/Kg	0.500U ng/Kg
SED-001-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	1.03 ng/Kg	1.03U ng/Kg
SED-001-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.563 ng/Kg	0.563U ng/Kg
SED-001-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.673 ng/Kg	0.673U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	4.73 ng/Kg	4.73U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.478 ng/Kg	0.478U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.364 ng/Kg	0.364U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.615 ng/Kg	0.615U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.430 ng/Kg	0.430U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.712 ng/Kg	0.712U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.294 ng/Kg	0.294U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.245 ng/Kg	0.245U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.469 ng/Kg	0.489U ng/Kg
SED-003-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.831 ng/Kg	0.831U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.825 ng/Kg	0.825U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.231 ng/Kg	0.231U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.525 ng/Kg	0.525U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.521 ng/Kg	0.521U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.590 ng/Kg	0.590U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.209 ng/Kg	0.209U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.480 ng/Kg	0.480U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.660 ng/Kg	0.660U ng/Kg
SED-004-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.283 ng/Kg	0.283U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	2.11 ng/Kg	2.11U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.230 ng/Kg	0.230U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.368 ng/Kg	0.388U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.404 ng/Kg	0.404U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.473 ng/Kg	0.473U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.283 ng/Kg	0.283U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.438 ng/Kg	0.438U ng/Kg
SED-005-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.809 ng/Kg	0.809U ng/Kg
SED-006-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	4.64 ng/Kg	4.64U ng/Kg
SED-006-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.395 ng/Kg	0.395U ng/Kg
SED-006-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.375 ng/Kg	0.375U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-006-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.544 ng/Kg	0.544U ng/Kg
SED-006-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.594 ng/Kg	0.594U ng/Kg
SED-006-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	1.03 ng/Kg	1.03U ng/Kg
SED-006-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.615 ng/Kg	0.615U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	3.91 ng/Kg	3.91U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.517 ng/Kg	0.517U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.444 ng/Kg	0.444U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.673 ng/Kg	0.673U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.695 ng/Kg	0.695U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.331 ng/Kg	0.331U ng/Kg
SED-008-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.653 ng/Kg	0.653U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	2.37 ng/Kg	2.37U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.213 ng/Kg	0.213U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.226 ng/Kg	0.226U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.166 ng/Kg	0.166U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.776 ng/Kg	0.776U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.401 ng/Kg	0.401U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0960 ng/Kg	0.0960U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.219 ng/Kg	0.219U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.228 ng/Kg	0.226U ng/Kg
SED-012-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.266 ng/Kg	0.266U ng/Kg
SED-014-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.711 ng/Kg	0.711U ng/Kg
SED-014-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	1.14 ng/Kg	1.14U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.40 ng/Kg	1.40U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.183 ng/Kg	0.183U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.139 ng/Kg	0.139U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.258 ng/Kg	0.258U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.303 ng/Kg	0.303U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.266 ng/Kg	0.266U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0979 ng/Kg	0.0979U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.190 ng/Kg	0.190U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.369 ng/Kg	0.369U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.572 ng/Kg	0.572U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	2,3,7,8-TCDF	0.194 ng/Kg	0.194U ng/Kg
SED-034-SIV-SD-0.0-0.5(RES)	OCDF	2.13 ng/Kg	2.13U ng/Kg
SED-037-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	4.92 ng/Kg	4.92U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-037-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.454 ng/Kg	0.454U ng/Kg
SED-037-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.857 ng/Kg	0.857U ng/Kg
SED-037-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.664 ng/Kg	0.664U ng/Kg
SED-037-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.353 ng/Kg	0.353U ng/Kg
SED-037-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.903 ng/Kg	0.903U ng/Kg
SED-037-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.819 ng/Kg	0.819U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.324 ng/Kg	0.324U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.422 ng/Kg	0.422U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0382 ng/Kg	0.0382U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0518 ng/Kg	0.0518U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0466 ng/Kg	0.0466U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0710 ng/Kg	0.0710U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0306 ng/Kg	0.0306U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	OCDD	1.25 ng/Kg	1.25U ng/Kg
SL-026-SA5B-SB-4.0-5.0(RES)	OCDF	0.430 ng/Kg	0.430U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,4,6,7,8-HPCDD	0.293 ng/Kg	0.293U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,4,6,7,8-HPCDF	0.425 ng/Kg	0.425U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,4,7,8,9-HPCDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,4,7,8-HXCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,6,7,8-HXCDD	0.0607 ng/Kg	0.0607U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,7,8,9-HXCDD	0.0935 ng/Kg	0.0935U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,7,8,9-HXCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,7,8-PECDD	0.0558 ng/Kg	0.0558U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	1,2,3,7,8-PECDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	2,3,4,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	2,3,4,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	OCDD	1.26 ng/Kg	1.26U ng/Kg
SL-026-SA5B-SB-9.0-10(RES)	OCDF	0.365 ng/Kg	0.365U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.625 ng/Kg	0.625U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.454 ng/Kg	0.454U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0894 ng/Kg	0.0894U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0948 ng/Kg	0.0948U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0748 ng/Kg	0.0748U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	OCDD	2.34 ng/Kg	2.34U ng/Kg
SL-281-SA5B-SB-4.0-5.0(RES)	OCDF	0.399 ng/Kg	0.399U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.797 ng/Kg	0.797U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.491 ng/Kg	0.491U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.286 ng/Kg	0.286U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.441 ng/Kg	0.441U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.301 ng/Kg	0.301U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.0821 ng/Kg	0.0821U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0816 ng/Kg	0.0816U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	OCDD	4.41 ng/Kg	4.41U ng/Kg
SL-281-SA5B-SB-8.0-9.0(RES)	OCDF	0.458 ng/Kg	0.458U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.02 ng/Kg	1.02U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.645 ng/Kg	0.645U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0465 ng/Kg	0.0465U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.182 ng/Kg	0.182U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.263 ng/Kg	0.263U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.192 ng/Kg	0.192U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.140 ng/Kg	0.140U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0693 ng/Kg	0.0693U ng/Kg
SL-282-SA5B-SB-4.0-5.0(RES)	OCDF	0.785 ng/Kg	0.785U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.415 ng/Kg	0.415U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.469 ng/Kg	0.469U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0353 ng/Kg	0.0353U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0919 ng/Kg	0.0919U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0973 ng/Kg	0.0973U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0951 ng/Kg	0.0951U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.152 ng/Kg	0.152U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0842 ng/Kg	0.0842U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	2,3,7,8-TCDF	0.0826 ng/Kg	0.0826U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	OCDD	1.60 ng/Kg	1.60U ng/Kg
SL-282-SA5B-SB-7.0-8.0(RES)	OCDF	0.331 ng/Kg	0.331U ng/Kg

Internal Standard Outlier Report

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB01-SIV-121710	13C-1,2,7,8-TCDD (CRS) 13C-2,3,7,8-TCDD	21 16	35.00-197.00 25.00-164.00	2,3,7,8-TCDD	J (all detects) UJ (all non-detects)
EB05-SA5B-121710	13C-1,2,7,8-TCDD (CRS) 13C-2,3,7,8-TCDD	8 4	35.00-197.00 25.00-164.00	2,3,7,8-TCDD	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX029 Laboratory: LL

EDD Filename: DX029_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
MOISTURE	19.1	20.8	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-005-SIV-SD-0.0-0.5	DUP01-SIV-QC-122010			
1,2,3,4,6,7,8-HPCDD	8.71	8.87	2	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	2.11	2.18	3	50.00	
1,2,3,4,7,8,9-HPCDF	0.261	0.230	13	50.00	
1,2,3,4,7,8-HxCDD	0.230	0.178	25	50.00	
1,2,3,4,7,8-HXCDF	0.388	0.430	10	50.00	
1,2,3,6,7,8-HXCDD	0.918	0.893	3	50.00	
1,2,3,6,7,8-HXCDF	0.404	0.379	6	50.00	
1,2,3,7,8,9-HXCDD	0.990	0.927	7	50.00	
1,2,3,7,8,9-HXCDF	0.473	0.430	10	50.00	
1,2,3,7,8-PECDD	0.283	0.256	10	50.00	
1,2,3,7,8-PECDF	2.12	1.94	9	50.00	
2,3,4,6,7,8-HXCDF	0.438	0.516	16	50.00	
2,3,4,7,8-PECDF	0.809	0.819	1	50.00	
2,3,7,8-TCDF	4.24	4.47	5	50.00	
OCDD	62.3	70.8	13	50.00	
OCDF	3.16	3.65	14	50.00	
2,3,7,8-TCDD	1.24 U	0.0424	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SIV-121710	1,2,3,4,6,7,8-HPCDD	JBQ	1.91	10.8	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.69	10.8	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.377	10.8	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.522	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.185	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.325	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.194	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.252	10.8	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.529	10.8	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.139	10.8	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.283	10.8	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.626	10.8	PQL	pg/L	
	OCDD	JB	13.7	21.6	PQL	pg/L	
	OCDF	JBQ	1.41	21.6	PQL	pg/L	
EB05-SA5B-121710	1,2,3,4,6,7,8-HPCDD	JBQ	0.726	10.9	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.18	10.9	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.193	10.9	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.379	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.332	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.250	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.355	10.9	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.220	10.9	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.344	10.9	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.732	10.9	PQL	pg/L	
	OCDD	JB	1.35	21.8	PQL	pg/L	
	OCDF	JBQ	0.858	21.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SIV-QC-122010	2,3,7,8-TCDF	B	4.47	1.26	PQL	ng/Kg	
DUP08-SA5B-QC-121710	2,3,7,8-TCDF	B	5.44	1.12	PQL	ng/Kg	
SED-001-SIV-SD-0.0-0.5	2,3,7,8-TCDF	B	1.76	1.14	PQL	ng/Kg	
SED-005-SIV-SD-0.0-0.5	2,3,7,8-TCDF	B	4.24	1.24	PQL	ng/Kg	
DUP01-SIV-QC-122010	1,2,3,4,6,7,8-HPCDF	JB	2.18	6.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.230	6.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.178	6.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.430	6.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.893	6.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.379	6.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.927	6.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.430	6.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.256	6.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.94	6.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.516	6.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.819	6.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0424	1.26	PQL	ng/Kg	
	OCDF	JB	3.65	12.6	PQL	ng/Kg	
DUP08-SA5B-QC-121710	1,2,3,7,8,9-HXCDF	JB	4.86	5.61	PQL	ng/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-001-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.60	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.421	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.500	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.12	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.56	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.03	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.21	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.563	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.673	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.66	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0787	1.14	PQL	ng/Kg	
	OCDF	JB	4.93	11.4	PQL	ng/Kg	
SED-003-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.73	6.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.478	6.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.364	6.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.615	6.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.06	6.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.430	6.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.712	6.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.294	6.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.245	6.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.98	6.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.489	6.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.831	6.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.108	1.35	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.719	1.35	PQL	ng/Kg	
	OCDF	JB	8.23	13.5	PQL	ng/Kg	
SED-004-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.825	6.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.231	6.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.525	6.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.850	6.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.521	6.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.590	6.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.224	6.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.209	6.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.480	6.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.660	6.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.283	6.19	PQL	ng/Kg	
SED-005-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.11	6.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.261	6.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.230	6.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.388	6.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.918	6.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.404	6.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.990	6.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.473	6.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.283	6.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.12	6.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.438	6.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.809	6.18	PQL	ng/Kg	
	OCDF	JB	3.16	12.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-006-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.64	6.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.395	6.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.375	6.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.544	6.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.69	6.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.594	6.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.51	6.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.03	6.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.38	6.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.615	6.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.28	6.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0794	1.25	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.10	1.25	PQL	ng/Kg	
	OCDF	JB	9.52	12.5	PQL	ng/Kg	
SED-007-SIV-SD-0.0-0.6	1,2,3,4,7,8,9-HPCDF	JB	1.00	6.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.782	6.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.30	6.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.45	6.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.80	6.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.39	6.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.690	6.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.580	6.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.751	6.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.90	6.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.16	6.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.130	1.22	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.307	1.22	PQL	ng/Kg	
	OCDF	JB	9.62	12.2	PQL	ng/Kg	
SED-008-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.91	7.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.517	7.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.444	7.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.673	7.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.37	7.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.695	7.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.28	7.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.331	7.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.10	7.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.653	7.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.17	7.43	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.10	1.49	PQL	ng/Kg	
	OCDF	JB	7.73	14.9	PQL	ng/Kg	
SED-012-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.37	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.213	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.226	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.166	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.776	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.177	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.401	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0960	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.219	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.152	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.226	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.266	5.31	PQL	ng/Kg	
	OCDF	JB	5.17	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-014-SIV-SD-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	2.86	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.80	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.711	5.88	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	1.14	5.88	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.217	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.384	1.18	PQL	ng/Kg	
SED-034-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.56	6.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.40	6.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.183	6.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.139	6.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.258	6.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.303	6.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	6.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.266	6.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.133	6.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0979	6.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	6.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.369	6.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.572	6.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.194	1.29	PQL	ng/Kg	
	OCDF	JB	2.13	12.9	PQL	ng/Kg	
SED-037-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.92	6.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.454	6.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.876	6.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.857	6.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.80	6.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.664	6.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.40	6.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.353	6.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.903	6.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.57	6.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.819	6.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.16	6.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.139	1.40	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.19	1.40	PQL	ng/Kg	
	OCDF	JB	8.47	14.0	PQL	ng/Kg	
SL-026-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.324	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.422	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0561	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0382	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0737	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0518	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0466	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0703	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0710	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0306	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.117	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0833	5.62	PQL	ng/Kg	
	OCDD	JB	1.25	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.430	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5B-SB-9.0-10	1,2,3,4,6,7,8-HPCDD	JB	0.293	5.46	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.425	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0481	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0869	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0607	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0610	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0935	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0646	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0558	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0518	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.160	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.108	5.46	PQL	ng/Kg	
	OCDD	JB	1.26	10.9	PQL	ng/Kg	
	OCDF	JB	0.365	10.9	PQL	ng/Kg	
SL-281-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.625	5.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.454	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0894	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.130	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0948	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0748	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.109	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.217	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0767	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.127	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.135	5.97	PQL	ng/Kg	
	OCDD	JB	2.34	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.399	11.9	PQL	ng/Kg	
SL-281-SA5B-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.797	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.491	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0860	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0812	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.286	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0979	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.441	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.301	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0821	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0816	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.151	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.138	5.71	PQL	ng/Kg	
	OCDD	JB	4.41	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.458	11.4	PQL	ng/Kg	
SL-282-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.02	5.47	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.645	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0727	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0465	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.144	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.144	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.124	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.182	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.263	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.125	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.192	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.140	5.47	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0693	1.09	PQL	ng/Kg	
	OCDF	JB	0.785	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX029 **Laboratory: LL**

EDD Filename: DX029_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-282-SA5B-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.415	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.469	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0590	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0353	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0919	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0973	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0951	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.146	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.152	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0757	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.142	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0842	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0826	1.10	PQL	ng/Kg	
	OCDD	JB	1.60	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.331	11.0	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: December 17 through December 20, 2010

LDC Report Date: June 17, 2011

Matrix: Soil/Sediment/Water

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX029

Sample Identification

DUP08-SA5B-QC-121710
EB05-SA5B-121710
EB01-SIV-121710
SED-014-SIV-SD-0.0-0.05
SED-012-SIV-SD-0.0-0.05
SED-006-SIV-SD-0.0-0.05
SED-001-SIV-SD-0.0-0.05
SED-004-SIV-SD-0.0-0.05
SL-282-SA5B-SB-4.0-5.0
SL-282-SA5B-SB-7.0-8.0
SL-281-SA5B-SB-4.0-5.0
SL-281-SA5B-SB-8.0-9.0
SL-026-SA5B-SB-4.0-5.0
SL-026-SA5B-SB-9.0-10.0
DUP01-SIV-QC-122010
SED-003-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5
SED-007-SIV-SD-0.0-0.5
SED-008-SIV-SD-0.0-0.5
SED-034-SIV-SD-0.0-0.5
SED-037-SIV-SD-0.0-0.5
SED-005-SIV-SD-0.0-0.5MS
SED-005-SIV-SD-0.0-0.5MSD

Introduction

This data review covers 7 soil samples, 14 sediment samples, and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
SED-007-SIV-SD-0.0-0.5	All TCL compounds	42	?????		

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
11012001-MB	1/12/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.199 ng/Kg 0.230 ng/Kg 0.199 ng/Kg 0.209 ng/Kg 0.226 ng/Kg 0.207 ng/Kg 0.147 ng/Kg 0.162 ng/Kg 0.167 ng/Kg 0.206 ng/Kg 1.49 ng/Kg 0.437 ng/Kg 0.200 ng/Kg 1.37 ng/Kg 0.495 ng/Kg	DUP08-SA5B-QC-121710 SED-014-SIV-SD-0.0-0.05 SED-012-SIV-SD-0.0-0.05 SED-006-SIV-SD-0.0-0.05 SED-001-SIV-SD-0.0-0.05 SED-004-SIV-SD-0.0-0.05 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10.0 DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5
11012001-MB	1/12/11	2,3,7,8-TCDF	0.0679 ng/Kg	DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.05 DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5
11032001-MB	2/1/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0415 ng/Kg 0.106 ng/Kg 0.0510 ng/Kg 0.0659 ng/Kg 0.0508 ng/Kg 0.0823 ng/Kg 0.0361 ng/Kg 0.0384 ng/Kg 0.0359 ng/Kg 0.0588 ng/Kg 0.242 ng/Kg 0.219 ng/Kg 0.0453 ng/Kg 0.513 ng/Kg 0.298 ng/Kg	SED-007-SIV-SD-0.0-0.5
10362001-MB	12/28/10	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.181 pg/L 2.81 pg/L 0.474 pg/L 0.810 pg/L 0.684 pg/L 0.599 pg/L 0.568 pg/L 0.505 pg/L 0.485 pg/L 0.512 pg/L 0.483 pg/L 0.637 pg/L 1.41 pg/L 1.35 pg/L 0.582 pg/L 2.39 pg/L 1.43 pg/L	All water samples in SDG DX029

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SED-014-SIV-SD-0.0-0.05	1,2,3,7,8-PeCDF	0.711 ng/Kg	0.711U ng/Kg
	2,3,4,7,8-PeCDF	1.14 ng/Kg	1.14U ng/Kg
SED-012-SIV-SD-0.0-0.05	1,2,3,7,8-PeCDF	0.152 ng/Kg	0.152U ng/Kg
	2,3,4,7,8-PeCDF	0.266 ng/Kg	0.266U ng/Kg
	1,2,3,7,8-PeCDD	0.219 ng/Kg	0.219U ng/Kg
	1,2,3,4,7,8-HxCDF	0.166 ng/Kg	0.166U ng/Kg
	1,2,3,6,7,8-HxCDF	0.177 ng/Kg	0.177U ng/Kg
	2,3,4,6,7,8-HxCDF	0.226 ng/Kg	0.226U ng/Kg
	1,2,3,4,7,8-HxCDD	0.226 ng/Kg	0.226U ng/Kg
	1,2,3,6,7,8-HxCDD	0.776 ng/Kg	0.776U ng/Kg
	1,2,3,7,8,9-HxCDD	0.401 ng/Kg	0.401U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0960 ng/Kg	0.0960U ng/Kg
	1,2,3,4,6,7,8-HpCDF	2.37 ng/Kg	2.37U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.213 ng/Kg	0.213U ng/Kg
SED-006-SIV-SD-0.0-0.05	1,2,3,4,7,8-HxCDF	0.544 ng/Kg	0.544U ng/Kg
	1,2,3,6,7,8-HxCDF	0.594 ng/Kg	0.594U ng/Kg
	2,3,4,6,7,8-HxCDF	0.615 ng/Kg	0.615U ng/Kg
	1,2,3,4,7,8-HxCDD	0.375 ng/Kg	0.375U ng/Kg
	1,2,3,7,8,9-HxCDF	1.03 ng/Kg	1.03U ng/Kg
	1,2,3,4,6,7,8-HpCDF	4.64 ng/Kg	4.64U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.395 ng/Kg	0.395U ng/Kg
SED-001-SIV-SD-0.0-0.05	1,2,3,6,7,8-HxCDF	1.03 ng/Kg	1.03U ng/Kg
	2,3,4,6,7,8-HxCDF	0.637 ng/Kg	0.637U ng/Kg
	1,2,3,4,7,8-HxCDD	0.500 ng/Kg	0.500U ng/Kg
	1,2,3,7,8,9-HxCDF	0.563 ng/Kg	0.563U ng/Kg
	1,2,3,4,6,7,8-HpCDF	4.60 ng/Kg	4.60U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.421 ng/Kg	0.421U ng/Kg
SED-004-SIV-SD-0.0-0.05	1,2,3,7,8-PeCDF	0.480 ng/Kg	0.480U ng/Kg
	2,3,4,7,8-PeCDF	0.283 ng/Kg	0.283U ng/Kg
	1,2,3,7,8-PeCDD	0.209 ng/Kg	0.209U ng/Kg
	1,2,3,4,7,8-HxCDF	0.525 ng/Kg	0.525U ng/Kg
	1,2,3,6,7,8-HxCDF	0.521 ng/Kg	0.521U ng/Kg
	2,3,4,6,7,8-HxCDF	0.660 ng/Kg	0.660U ng/Kg
	1,2,3,4,7,8-HxCDD	0.231 ng/Kg	0.231U ng/Kg
	1,2,3,7,8,9-HxCDD	0.590 ng/Kg	0.590U ng/Kg
	1,2,3,7,8,9-HxCDF	0.224 ng/Kg	0.224U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.825 ng/Kg	0.825U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-282-SA5B-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.125 ng/Kg	0.125U ng/Kg
	2,3,4,7,8-PeCDF	0.140 ng/Kg	0.140U ng/Kg
	1,2,3,7,8-PeCDD	0.118 ng/Kg	0.118U ng/Kg
	1,2,3,4,7,8-HxCDF	0.144 ng/Kg	0.144U ng/Kg
	1,2,3,6,7,8-HxCDF	0.124 ng/Kg	0.124U ng/Kg
	2,3,4,6,7,8-HxCDF	0.192 ng/Kg	0.192U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0465 ng/Kg	0.0465U ng/Kg
	1,2,3,6,7,8-HxCDD	0.144 ng/Kg	0.144U ng/Kg
	1,2,3,7,8,9-HxCDD	0.182 ng/Kg	0.182U ng/Kg
	1,2,3,7,8,9-HxCDF	0.263 ng/Kg	0.263U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.645 ng/Kg	0.645U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.02 ng/Kg	1.02U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0727 ng/Kg	0.0727U ng/Kg
	OCDF	0.785 ng/Kg	0.785U ng/Kg
SL-282-SA5B-SB-7.0-8.0	1,2,3,7,8-PeCDF	0.0757 ng/Kg	0.0757U ng/Kg
	2,3,4,7,8-PeCDF	0.0842 ng/Kg	0.0842U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0919 ng/Kg	0.0919U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0951 ng/Kg	0.0951U ng/Kg
	2,3,4,6,7,8-HxCDF	0.142 ng/Kg	0.142U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0353 ng/Kg	0.0353U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0973 ng/Kg	0.0973U ng/Kg
	1,2,3,7,8,9-HxCDD	0.146 ng/Kg	0.146U ng/Kg
	1,2,3,7,8,9-HxCDF	0.152 ng/Kg	0.152U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.469 ng/Kg	0.469U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.415 ng/Kg	0.415U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0590 ng/Kg	0.0590U ng/Kg
	OCDD	1.60 ng/Kg	1.60U ng/Kg
	OCDF	0.331 ng/Kg	0.331U ng/Kg
SL-281-SA5B-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0767 ng/Kg	0.0767U ng/Kg
	2,3,4,7,8-PeCDF	0.135 ng/Kg	0.135U ng/Kg
	1,2,3,4,7,8-HxCDF	0.130 ng/Kg	0.130U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0748 ng/Kg	0.0748U ng/Kg
	2,3,4,6,7,8-HxCDF	0.127 ng/Kg	0.127U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0948 ng/Kg	0.0948U ng/Kg
	1,2,3,7,8,9-HxCDD	0.109 ng/Kg	0.109U ng/Kg
	1,2,3,7,8,9-HxCDF	0.217 ng/Kg	0.217U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.454 ng/Kg	0.454U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.625 ng/Kg	0.625U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0894 ng/Kg	0.0894U ng/Kg
	OCDD	2.34 ng/Kg	2.34U ng/Kg
	OCDF	0.399 ng/Kg	0.399U ng/Kg
SL-281-SA5B-SB-8.0-9.0	1,2,3,7,8-PeCDF	0.0816 ng/Kg	0.0816U ng/Kg
	2,3,4,7,8-PeCDF	0.138 ng/Kg	0.138U ng/Kg
	1,2,3,7,8-PeCDD	0.0821 ng/Kg	0.0821U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0812 ng/Kg	0.0812U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0979 ng/Kg	0.0979U ng/Kg
	2,3,4,6,7,8-HxCDF	0.151 ng/Kg	0.151U ng/Kg
	1,2,3,6,7,8-HxCDD	0.286 ng/Kg	0.286U ng/Kg
	1,2,3,7,8,9-HxCDD	0.441 ng/Kg	0.441U ng/Kg
	1,2,3,7,8,9-HxCDF	0.301 ng/Kg	0.301U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.491 ng/Kg	0.491U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.797 ng/Kg	0.797U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0860 ng/Kg	0.0860U ng/Kg
	OCDD	4.41 ng/Kg	4.41U ng/Kg
	OCDF	0.458 ng/Kg	0.458U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-026-SA5B-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0306 ng/Kg	0.0306U ng/Kg
	2,3,4,7,8-PeCDF	0.0833 ng/Kg	0.0833U ng/Kg
	1,2,3,7,8-PeCDD	0.0710 ng/Kg	0.0710U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0737 ng/Kg	0.0737U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0466 ng/Kg	0.0466U ng/Kg
	2,3,4,6,7,8-HxCDF	0.117 ng/Kg	0.117U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0382 ng/Kg	0.0382U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0518 ng/Kg	0.0518U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0703 ng/Kg	0.0703U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.422 ng/Kg	0.422U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.324 ng/Kg	0.324U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0561 ng/Kg	0.0561U ng/Kg
	OCDD	1.25 ng/Kg	1.25U ng/Kg
	OCDF	0.430 ng/Kg	0.430U ng/Kg
SL-026-SA5B-SB-9.0-10.0	1,2,3,7,8-PeCDF	0.0518 ng/Kg	0.0518U ng/Kg
	2,3,4,7,8-PeCDF	0.108 ng/Kg	0.108U ng/Kg
	1,2,3,7,8-PeCDD	0.0558 ng/Kg	0.0558U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0869 ng/Kg	0.0869U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0610 ng/Kg	0.0610U ng/Kg
	2,3,4,6,7,8-HxCDF	0.160 ng/Kg	0.160U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0607 ng/Kg	0.0607U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0935 ng/Kg	0.0935U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0646 ng/Kg	0.0646U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.425 ng/Kg	0.425U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.293 ng/Kg	0.293U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0481 ng/Kg	0.0481U ng/Kg
	OCDD	1.26 ng/Kg	1.26U ng/Kg
	OCDF	0.365 ng/Kg	0.365U ng/Kg
DUP01-SIV-QC-122010	2,3,4,7,8-PeCDF	0.819 ng/Kg	0.819U ng/Kg
	1,2,3,7,8-PeCDD	0.256 ng/Kg	0.256U ng/Kg
	1,2,3,4,7,8-HxCDF	0.430 ng/Kg	0.430U ng/Kg
	1,2,3,6,7,8-HxCDF	0.379 ng/Kg	0.379U ng/Kg
	2,3,4,6,7,8-HxCDF	0.516 ng/Kg	0.516U ng/Kg
	1,2,3,4,7,8-HxCDD	0.178 ng/Kg	0.178U ng/Kg
	1,2,3,7,8,9-HxCDF	0.430 ng/Kg	0.430U ng/Kg
	1,2,3,4,6,7,8-HpCDF	2.18 ng/Kg	2.18U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.230 ng/Kg	0.230U ng/Kg
SED-003-SIV-SD-0.0-0.5	2,3,4,7,8-PeCDF	0.831 ng/Kg	0.831U ng/Kg
	1,2,3,7,8-PeCDD	0.245 ng/Kg	0.245U ng/Kg
	1,2,3,4,7,8-HxCDF	0.615 ng/Kg	0.615U ng/Kg
	1,2,3,6,7,8-HxCDF	0.430 ng/Kg	0.430U ng/Kg
	2,3,4,6,7,8-HxCDF	0.489 ng/Kg	0.489U ng/Kg
	1,2,3,4,7,8-HxCDD	0.364 ng/Kg	0.364U ng/Kg
	1,2,3,7,8,9-HxCDD	0.712 ng/Kg	0.712U ng/Kg
	1,2,3,7,8,9-HxCDF	0.294 ng/Kg	0.294U ng/Kg
	1,2,3,4,6,7,8-HpCDF	4.73 ng/Kg	4.73U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.478 ng/Kg	0.478U ng/Kg
SED-005-SIV-SD-0.0-0.5	2,3,4,7,8-PeCDF	0.809 ng/Kg	0.809U ng/Kg
	1,2,3,7,8-PeCDD	0.283 ng/Kg	0.283U ng/Kg
	1,2,3,4,7,8-HxCDF	0.388 ng/Kg	0.388U ng/Kg
	1,2,3,6,7,8-HxCDF	0.404 ng/Kg	0.404U ng/Kg
	2,3,4,6,7,8-HxCDF	0.438 ng/Kg	0.438U ng/Kg
	1,2,3,4,7,8-HxCDD	0.230 ng/Kg	0.230U ng/Kg
	1,2,3,7,8,9-HxCDF	0.473 ng/Kg	0.473U ng/Kg
	1,2,3,4,6,7,8-HpCDF	2.11 ng/Kg	2.11U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.261 ng/Kg	0.261U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SED-008-SIV-SD-0.0-0.5	1,2,3,4,7,8-HxCDF	0.673 ng/Kg	0.673U ng/Kg
	1,2,3,6,7,8-HxCDF	0.695 ng/Kg	0.695U ng/Kg
	2,3,4,6,7,8-HxCDF	0.653 ng/Kg	0.653U ng/Kg
	1,2,3,4,7,8-HxCDD	0.444 ng/Kg	0.444U ng/Kg
	1,2,3,7,8,9-HxCDF	0.331 ng/Kg	0.331U ng/Kg
	1,2,3,4,6,7,8-HpCDF	3.91 ng/Kg	3.91U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.517 ng/Kg	0.517U ng/Kg
SED-034-SIV-SD-0.0-0.5	1,2,3,7,8-PeCDF	0.190 ng/Kg	0.190U ng/Kg
	2,3,4,7,8-PeCDF	0.572 ng/Kg	0.572U ng/Kg
	1,2,3,7,8-PeCDD	0.0979 ng/Kg	0.0979U ng/Kg
	1,2,3,4,7,8-HxCDF	0.258 ng/Kg	0.258U ng/Kg
	1,2,3,6,7,8-HxCDF	0.215 ng/Kg	0.215U ng/Kg
	2,3,4,6,7,8-HxCDF	0.369 ng/Kg	0.369U ng/Kg
	1,2,3,4,7,8-HxCDD	0.139 ng/Kg	0.139U ng/Kg
	1,2,3,6,7,8-HxCDD	0.303 ng/Kg	0.303U ng/Kg
	1,2,3,7,8,9-HxCDD	0.266 ng/Kg	0.266U ng/Kg
	1,2,3,7,8,9-HxCDF	0.133 ng/Kg	0.133U ng/Kg
	1,2,3,4,6,7,8-HpCDF	1.40 ng/Kg	1.40U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.183 ng/Kg	0.183U ng/Kg
	OCDF	2.13 ng/Kg	2.13U ng/Kg
SED-037-SIV-SD-0.0-0.5	1,2,3,7,8-PeCDD	0.903 ng/Kg	0.903U ng/Kg
	1,2,3,4,7,8-HxCDF	0.857 ng/Kg	0.857U ng/Kg
	1,2,3,6,7,8-HxCDF	0.664 ng/Kg	0.664U ng/Kg
	2,3,4,6,7,8-HxCDF	0.819 ng/Kg	0.819U ng/Kg
	1,2,3,7,8,9-HxCDF	0.353 ng/Kg	0.353U ng/Kg
	1,2,3,4,6,7,8-HpCDF	4.92 ng/Kg	4.92U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.454 ng/Kg	0.454U ng/Kg
EB05-SA5B-121710	1,2,3,7,8-PeCDF	0.220 pg/L	0.220U pg/L
	2,3,4,7,8-PeCDF	0.732 pg/L	0.732U pg/L
	1,2,3,4,7,8-HxCDF	0.379 pg/L	0.379U pg/L
	1,2,3,6,7,8-HxCDF	0.332 pg/L	0.332U pg/L
	2,3,4,6,7,8-HxCDF	0.344 pg/L	0.344U pg/L
	1,2,3,7,8,9-HxCDD	0.250 pg/L	0.250U pg/L
	1,2,3,7,8,9-HxCDF	0.355 pg/L	0.355U pg/L
	1,2,3,4,6,7,8-HpCDF	1.18 pg/L	1.18U pg/L
	1,2,3,4,6,7,8-HpCDD	0.726 pg/L	0.726U pg/L
	1,2,3,4,7,8,9-HpCDF	0.193 pg/L	0.193U pg/L
	OCDD	1.35 pg/L	1.35U pg/L
	OCDF	0.858 pg/L	0.858U pg/L
EB01-SIV-121710	1,2,3,7,8-PeCDF	0.139 pg/L	0.139U pg/L
	2,3,4,7,8-PeCDF	0.626 pg/L	0.626U pg/L
	1,2,3,7,8-PeCDD	0.529 pg/L	0.529U pg/L
	1,2,3,4,7,8-HxCDF	0.522 pg/L	0.522U pg/L
	1,2,3,6,7,8-HxCDF	0.325 pg/L	0.325U pg/L
	2,3,4,6,7,8-HxCDF	0.283 pg/L	0.283U pg/L
	1,2,3,6,7,8-HxCDD	0.185 pg/L	0.185U pg/L
	1,2,3,7,8,9-HxCDD	0.194 pg/L	0.194U pg/L
	1,2,3,7,8,9-HxCDF	0.252 pg/L	0.252U pg/L
	1,2,3,4,6,7,8-HpCDF	1.69 pg/L	1.69U pg/L
	1,2,3,4,6,7,8-HpCDD	1.91 pg/L	1.91U pg/L
	1,2,3,4,7,8,9-HpCDF	0.377 pg/L	0.377U pg/L
	OCDF	1.41 pg/L	1.41U pg/L

Samples EB05-SA5B-121710 and EB01-SIV-121710 were identified as equipment blanks. No polychlorinated dioxin/dibenzofuran contaminants were found in these blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB05-SA5B-121710	12/17/10	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.220 pg/L 0.732 pg/L 0.379 pg/L 0.332 pg/L 0.344 pg/L 0.250 pg/L 0.355 pg/L 1.18 pg/L 0.726 pg/L 0.193 pg/L 1.35 pg/L 0.858 pg/L	DUP08-SA5B-QC-121710 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10.0
EB01-SIV-121710	12/17/10	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.139 pg/L 0.626 pg/L 0.529 pg/L 0.522 pg/L 0.325 pg/L 0.283 pg/L 0.185 pg/L 0.194 pg/L 0.252 pg/L 1.69 pg/L 1.91 pg/L 0.377 pg/L 13.7 pg/L 1.41 pg/L	SED-014-SIV-SD-0.0-0.05 SED-012-SIV-SD-0.0-0.05 SED-006-SIV-SD-0.0-0.05 SED-001-SIV-SD-0.0-0.05 SED-004-SIV-SD-0.0-0.05

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
10362001-MB	^{13}C-2,3,7,8,-TCDD	6 (35-197)	2,3,7,8,-TCDD	J (all detects) UJ (all non-detects)	P
EB05-SA5B-121710	^{13}C-2,3,7,8,-TCDD	4 (25-164)	2,3,7,8,-TCDD	J (all detects) UJ (all non-detects)	P
EB01-SIV-121710	^{13}C-2,3,7,8,-TCDD	16 (25-164)	2,3,7,8,-TCDD	J (all detects) UJ (all non-detects)	P

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
DUP08-SA5B-QC-121710 SED-014-SIV-SD-0.0-0.05	1,2,3,4,6,7,8-HpCDD OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX029	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

The overall assessment of data was acceptable. In the case where more than one result was reported for an individual sample, the least technically acceptable results were rejected as follows:

Sample	Compound	Flag	A or P
DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.05	2,3,7,8-TCDF (on DB-5MS)	R	A
DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	2,3,7,8-TCDF (on SP2331)	R	A

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples DUP01-SIV-QC-122010 and SED-005-SIV-SD-0.0-0.5 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
2,3,7,8-TCDF	4.94	4.44	11 (≤50)	-	-
2,3,7,8-TCDD	0.0424	0.0511U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	1.94	2.12	9 (≤50)	-	-
2,3,4,7,8-PeCDF	0.819	0.809	1 (≤50)	-	-
1,2,3,7,8-PeCDD	0.256	0.283	10 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.430	0.388	10 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.379	0.404	6 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.516	0.438	16 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.178	0.230	25 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.893	0.918	3 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.927	0.990	7 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.430	0.473	10 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	2.18	2.11	3 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	DUP01-SIV-QC-122010	SED-005-SIV-SD-0.0-0.5			
1,2,3,4,6,7,8-HpCDD	8.87	8.71	2 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.230	0.261	13 (≤50)	-	-
OCDD	70.8	62.3	13 (≤50)	-	-
OCDF	3.65	3.16	14 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX029

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX029	EB05-SA5B-121710 EB01-SIV-121710	2,3,7,8,-TCDD	J (all detects) UJ (all non-detects)	P	Internal standards (%R) (I)
DX029	DUP08-SA5B-QC-121710 SED-014-SIV-SD-0.0-0.05	1,2,3,4,6,7,8-HpCDD OCDD	J (all detects) J (all detects)	P	Compound quantitation and CRQLs (exceeded range) (*XI)
DX029	DUP08-SA5B-QC-121710 EB05-SA5B-121710 EB01-SIV-121710 SED-014-SIV-SD-0.0-0.05 SED-012-SIV-SD-0.0-0.05 SED-006-SIV-SD-0.0-0.05 SED-001-SIV-SD-0.0-0.05 SED-004-SIV-SD-0.0-0.05 SL-282-SA5B-SB-4.0-5.0 SL-282-SA5B-SB-7.0-8.0 SL-281-SA5B-SB-4.0-5.0 SL-281-SA5B-SB-8.0-9.0 SL-026-SA5B-SB-4.0-5.0 SL-026-SA5B-SB-9.0-10.0 DUP01-SIV-QC-122010 SED-003-SIV-SD-0.0-0.5 SED-005-SIV-SD-0.0-0.5 SED-007-SIV-SD-0.0-0.5 SED-008-SIV-SD-0.0-0.5 SED-034-SIV-SD-0.0-0.5 SED-037-SIV-SD-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DX029	DUP08-SA5B-QC-121710 SED-001-SIV-SD-0.0-0.05	2,3,7,8-TCDF (on DB-5MS)	R	A	Overall assessment of data (*XIII)
DX029	DUP01-SIV-QC-122010 SED-005-SIV-SD-0.0-0.5	2,3,7,8-TCDF (on SP2331)	R	A	Overall assessment of data (*XIII)
DX029	SL-026-SA5B-SB-4.0-5.0 DUP01-SIV-QC-122010	2,3,7,8-TCDD	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX029

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX029	SED-014-SIV-SD-0.0-0.05	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF	0.711U ng/Kg 1.14U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX029	SED-012-SIV-SD-0.0-0.05	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.152U ng/Kg 0.266U ng/Kg 0.219U ng/Kg 0.166U ng/Kg 0.177U ng/Kg 0.226U ng/Kg 0.226U ng/Kg 0.776U ng/Kg 0.401U ng/Kg 0.0960U ng/Kg 2.37U ng/Kg 0.213U ng/Kg	A	B
DX029	SED-006-SIV-SD-0.0-0.05	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.544U ng/Kg 0.594U ng/Kg 0.615U ng/Kg 0.375U ng/Kg 1.03U ng/Kg 4.64U ng/Kg 0.395U ng/Kg	A	B
DX029	SED-001-SIV-SD-0.0-0.05	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	1.03U ng/Kg 0.637U ng/Kg 0.500U ng/Kg 0.563U ng/Kg 4.60U ng/Kg 0.421U ng/Kg	A	B
DX029	SED-004-SIV-SD-0.0-0.05	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.480U ng/Kg 0.283U ng/Kg 0.209U ng/Kg 0.525U ng/Kg 0.521U ng/Kg 0.660U ng/Kg 0.231U ng/Kg 0.590U ng/Kg 0.224U ng/Kg 0.825U ng/Kg	A	B
DX029	SL-282-SA5B-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.125U ng/Kg 0.140U ng/Kg 0.118U ng/Kg 0.144U ng/Kg 0.124U ng/Kg 0.192U ng/Kg 0.0465U ng/Kg 0.144U ng/Kg 0.182U ng/Kg 0.263U ng/Kg 0.645U ng/Kg 1.02U ng/Kg 0.0727U ng/Kg 0.785U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX029	SL-282-SA5B-SB-7.0-8.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0757U ng/Kg 0.0842U ng/Kg 0.0919U ng/Kg 0.0951U ng/Kg 0.142U ng/Kg 0.0353U ng/Kg 0.0973U ng/Kg 0.146U ng/Kg 0.152U ng/Kg 0.469U ng/Kg 0.415U ng/Kg 0.0590U ng/Kg 1.60U ng/Kg 0.331U ng/Kg	A	B
DX029	SL-281-SA5B-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0767U ng/Kg 0.135U ng/Kg 0.130U ng/Kg 0.0748U ng/Kg 0.127U ng/Kg 0.0948U ng/Kg 0.109U ng/Kg 0.217U ng/Kg 0.454U ng/Kg 0.625U ng/Kg 0.0894U ng/Kg 2.34U ng/Kg 0.399U ng/Kg	A	B
DX029	SL-281-SA5B-SB-8.0-9.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0816U ng/Kg 0.138U ng/Kg 0.0821U ng/Kg 0.0812U ng/Kg 0.0979U ng/Kg 0.151U ng/Kg 0.286U ng/Kg 0.441U ng/Kg 0.301U ng/Kg 0.491U ng/Kg 0.797U ng/Kg 0.0860U ng/Kg 4.41U ng/Kg 0.458U ng/Kg	A	B
DX029	SL-026-SA5B-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0306U ng/Kg 0.0833U ng/Kg 0.0710U ng/Kg 0.0737U ng/Kg 0.0466U ng/Kg 0.117U ng/Kg 0.0382U ng/Kg 0.0518U ng/Kg 0.0703U ng/Kg 0.422U ng/Kg 0.324U ng/Kg 0.0561U ng/Kg 1.25U ng/Kg 0.430U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX029	SL-026-SA5B-SB-9.0-10.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0518U ng/Kg 0.108U ng/Kg 0.0558U ng/Kg 0.0869U ng/Kg 0.0610U ng/Kg 0.160U ng/Kg 0.0607U ng/Kg 0.0935U ng/Kg 0.0646U ng/Kg 0.425U ng/Kg 0.293U ng/Kg 0.0481U ng/Kg 1.26U ng/Kg 0.365U ng/Kg	A	B
DX029	DUP01-SIV-QC-122010	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.819U ng/Kg 0.256U ng/Kg 0.430U ng/Kg 0.379U ng/Kg 0.516U ng/Kg 0.178U ng/Kg 0.430U ng/Kg 2.18U ng/Kg 0.230U ng/Kg	A	B
DX029	SED-003-SIV-SD-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.831U ng/Kg 0.245U ng/Kg 0.615U ng/Kg 0.430U ng/Kg 0.489U ng/Kg 0.364U ng/Kg 0.712U ng/Kg 0.294U ng/Kg 4.73U ng/Kg 0.478U ng/Kg	A	B
DX029	SED-005-SIV-SD-0.0-0.5	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.809U ng/Kg 0.283U ng/Kg 0.388U ng/Kg 0.404U ng/Kg 0.438U ng/Kg 0.230U ng/Kg 0.473U ng/Kg 2.11U ng/Kg 0.261U ng/Kg	A	B
DX029	SED-008-SIV-SD-0.0-0.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.673U ng/Kg 0.695U ng/Kg 0.653U ng/Kg 0.444U ng/Kg 0.331U ng/Kg 3.91U ng/Kg 0.517U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX029	SED-034-SIV-SD-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.190U ng/Kg 0.572U ng/Kg 0.0979U ng/Kg 0.258U ng/Kg 0.215U ng/Kg 0.369U ng/Kg 0.139U ng/Kg 0.303U ng/Kg 0.266U ng/Kg 0.133U ng/Kg 1.40U ng/Kg 0.183U ng/Kg 2.13U ng/Kg	A	B
DX029	SED-037-SIV-SD-0.0-0.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.903U ng/Kg 0.857U ng/Kg 0.664U ng/Kg 0.819U ng/Kg 0.353U ng/Kg 4.92U ng/Kg 0.454U ng/Kg	A	B
DX029	EB05-SA5B-121710	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.220U pg/L 0.732U pg/L 0.379U pg/L 0.332U pg/L 0.344U pg/L 0.250U pg/L 0.355U pg/L 1.18U pg/L 0.726U pg/L 0.193U pg/L 1.35U pg/L 0.858U pg/L	A	B
DX029	EB01-SIV-121710	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.139U pg/L 0.626U pg/L 0.529U pg/L 0.522U pg/L 0.325U pg/L 0.283U pg/L 0.185U pg/L 0.194U pg/L 0.252U pg/L 1.69U pg/L 1.91U pg/L 0.377U pg/L 1.41U pg/L	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX029

No Sample Data Qualified in this SDG

LDC #: 25550M21 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/6/11
SDG #: DX029 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/19/10 – 12/20/10
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~rcv~~	A	QC limits
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	SW	QC limits
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	SW	
XII.	System performance	A	
XIII.	Overall assessment of data	SW	
XIV.	Field duplicates	SW	D = 1, 4 15, 17
XV.	Field blanks	SW	FB = 2, 3

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

note: Parent of #1 – not validated no result was submitted

Validated Samples: soil, sediment, water

1	1	DUP08-SA5B-QC-121710	SO	11	1	SL-281-SA5B-SB-4.0-5.0	SO	21	1	SED-037-SIV-SD-0.0-0.5	SED	31	
2	2	EB05-SA5B-121710	W	12	1	SL-281-SA5B-SB-8.0-9.0		22	1	SED-005-SIV-SD-0.0-0.5MS		32	
3	2	EB01-SIV-121710		13	1	SL-026-SA5B-SB-4.0-5.0		23	1	SED-005-SIV-SD-0.0-0.5MSD		33	
4	1	SED-014-SIV-SD-0.0-0.05	SED	14	1	SL-026-SA5B-SB-9.0-10.0		24				34	
5	1	SED-012-SIV-SD-0.0-0.05		15	1	DUP01-SIV-QC-122010	D SED	25	1	11012001-MB		35	
6	1	SED-006-SIV-SD-0.0-0.05		16	1	SED-003-SIV-SD-0.0-0.5	SED	26	2	10362001-MB		36	
7	1	SED-001-SIV-SD-0.0-0.05		17	1	SED-005-SIV-SD-0.0-0.5	D	27	3	11032001-MB		37	
8	1	SED-004-SIV-SD-0.0-0.05		18	3	SED-007-SIV-SD-0.0-0.5		28		11012001-MBConf		38	
9	1	SL-282-SA5B-SB-4.0-5.0	SO	19	1	SED-008-SIV-SD-0.0-0.5		29				39	
10	1	SL-282-SA5B-SB-7.0-8.0		20	1	SED-034-SIV-SD-0.0-0.5		30				40	

Notes: _____

LDC #: 25550M2 /

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard > 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		

LDC #: 25550M2

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the ~~25-150% criteria~~ QC limits?	✓	✓		
Was the minimum S/N ratio of all internal standard peaks ≥ 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?	✓			
Was an acceptable lock mass recorded and monitored?	✓			
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: 25550M21 /

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer: (A)

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 1/12/11 **Blank analysis date:** 1/27/11 **Associated samples:** 1, 4-17, 19-21

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11012001-MB	5X	4	5	6	7	8	9	10	11
I	0.199*	0.995	0.711U	0.152*U	-	-	0.480U	0.125U	0.0757U	0.0767*U
J	0.230*	1.15	1.14U	0.266*U	-	-	0.283U	0.140*U	0.0842U	0.135U
B	0.199	0.995		0.219*U	-	-	0.209*U	0.118*U	-	-
K	0.209	1.045		0.166*U	0.544U	-	0.525U	0.144*U	0.0919U	0.130*U
L	0.226*	1.13		0.177*U	0.594U	1.03U	0.521U	0.124*U	0.0951*U	0.0748U
M	0.207	1.035		0.226*U	0.615U	0.637U	0.660U	0.192*U	0.142U	0.127*U
C	0.147*	0.735		0.226*U	0.375U	0.500U	0.231U	0.0465*U	0.0353*U	-
D	0.162*	0.81		0.776U	-	-	-	0.144U	0.0973*U	0.0948U
E	0.167	0.835		0.401U	-	-	0.590U	0.182*U	0.146*U	0.109U
N	0.206	1.03		0.0960U	1.03U	0.563U	0.224U	0.263U	0.152*U	0.217*U
O	1.49*	7.45		2.37U	4.64U	4.60U	-	0.645U	0.469U	0.454U
F	0.437	2.185		-	-	-	-	1.02U	0.415U	0.625U
P	0.200	1.00		0.213U	0.395*U	0.421*U	0.825U	0.0727*u	0.0590U	0.0894U
G	1.37	6.85		-	-	-	-	-	1.60U	2.34U
Q	0.495*	2.475		-	-	-	-	0.785U	0.331*U	0.399*U

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

LDC #: 25550M21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer: (A)

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 1/12/11 **Blank analysis date:** 1/27/11 **Associated samples:** 1, 4-17, 19-21

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11012001-MB	5X	12	13	14	15	16	17	19	20
I	0.199*	0.995	0.0816*U	0.0306U	0.0518*U	-	-	-	-	0.190U
J	0.230*	1.15	0.138*U	0.0833U	0.108*U	0.819U	0.831*U	0.809U	-	0.572U
B	0.199	0.995	0.0821U	0.0710*U	0.0558*U	0.256U	0.245U	0.283*U	-	0.0979U
K	0.209	1.045	0.0812U	0.0737*U	0.0869*U	0.430U	0.615U	0.388*U	0.673U	0.258*U
L	0.226*	1.13	0.0979*U	0.0466U	0.0610U	0.379U	0.430U	0.404*U	0.695U	0.215U
M	0.207	1.035	0.151*U	0.117U	0.160*U	0.516U	0.489U	0.438U	0.653U	0.369U
C	0.147*	0.735	-	0.0382*U	-	0.178*U	0.364U	0.230U	0.444*U	0.139*U
D	0.162*	0.81	0.286U	0.0518*U	0.0607*U	-	-	-	-	0.303*U
E	0.167	0.835	0.441U	-	0.0935*U	-	0.712U	-	-	0.266U
N	0.206	1.03	0.301U	0.0703*U	0.0646*U	0.430U	0.294U	0.473U	0.331*U	0.133*U
O	1.49*	7.45	0.491U	0.422U	0.425U	2.18U	4.73U	2.11U	3.91U	1.40U
F	0.437	2.185	0.797U	0.324U	0.293U	-	-	-	-	-
P	0.200	1.00	0.0860U	0.0561*U	0.0481*U	0.230U	0.478*U	0.261*U	0.517*U	0.183*U
G	1.37	6.85	4.41U	1.25U	1.26U	-	-	-	-	-
Q	0.495*	2.475	0.458*U	0.430*U	0.365U	-	-	-	-	2.13U

LDC #: 25550M21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer:

(B)

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

Blank extraction date: 1/12/11 **Blank analysis date:** 1/27/11 **Associated samples:** 1, 4-17, 19-21

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11012001-MB	5X		21						
I	0.199*	0.995								
J	0.230*	1.15								
B	0.199	0.995		0.903*U						
K	0.209	1.045		0.857U						
L	0.226*	1.13		0.664U						
M	0.207	1.035		0.819U						
C	0.147*	0.735								
D	0.162*	0.81								
E	0.167	0.835								
N	0.206	1.03		0.353*U						
O	1.49*	7.45		4.92U						
F	0.437	2.185								
P	0.200	1.00		0.454U						
G	1.37	6.85								
Q	0.495*	2.475								

LDC #: 25550M21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 1/12/11 **Blank analysis date:** 2/6/11 **Associated samples** 1, 7, 15, 17 (75X)

Conc. units: ng/Kg

Compound	Blank ID	5X	Sample Identification							
[redacted]	110l2001-MB Conf									
H	0.0679 *	0.3395								

LDC #: 25550M2/

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

* = HPC

(B)

Blank extraction date: 02/01/11 **Blank analysis date:** 2/7/11 **Associated samples:** 18 7 5X

Conc. units: ng/kg

Compound	Blank ID	Sample Identification								
[illegible]	11032001-MB -	18								
I	0.0415 *									
J	0.106 *									
B	0.0510 *									
K	0.0659 *									
L	0.0508 *									
M	0.0823 *									
C	0.0361 *									
D	0.0384 *									
E	0.0359 *									
N	0.0588 *									
O	0.242									
F	0.219 *									
P	0.0453 *									
G	0.513 *									
Q	0.298 *									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 25550H2 /

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

* EMPC

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 12/28/10 **Blank analysis date:** 12/30/10 **Associated samples:** All water

Conc. units: pg/L

Compound	Blank ID	Sample Identification									
	1036200 1-MB		2		3						
H	0.181 *		-		-						
A	2.81		-		-						
I	0.474		0.220 */U		0.139 */U						
J	0.810 *		0.732 /U		0.626 */U						
B	0.684 *		-		0.529 */U						
K	0.599 *		0.379 */U		0.522/U						
L	0.568 *		0.332 */U		0.325 */U						
M	0.505		0.344 */U		0.283 */U						
C	0.485 *		-		-						
D	0.512 *		-		0.185 */U						
E	0.483		0.250 */U		0.194 */U						
N	0.637 *		0.355 */U		0.252 */U						
O	1.41		1.18 */U		1.69 /U						
F	1.35 *		0.726 */U		1.91 */U						
P	0.582 *		0.193 */U		0.377 */U						
G	2.39		1.35 /U		-						
Q	1.43 *		0.858 */U		1.41 */U						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 25550M21

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer: CA

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

* EMPC

(F)

Y N N/A Were field blanks identified in this SDG?
Blank units: pg/L **Associated sample units:** ng/kg
Sampling date: 12/17/10
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1, 4 → 14 75X

Compound	Blank ID	BLK ID	Sample Identification							
	2	3								
I	0.220 *	0.139 *								
J	0.732	0.626								
B	-	0.529 *								
K	0.379 *	0.522								
L	0.332 *	0.325 *								
M	0.344 *	0.283 *								
C	-	-								
D	-	0.185 *								
E	0.250 *	0.194 *								
N	0.355 *	0.252 *								
O	1.18 *	1.69								
F	0.726 *	1.91 *								
P	0.193 *	0.377 *								
G	1.35	13.7								
Q	0.858 *	1.41 *								
CRQL										

LDC #: 25550M2/

VALIDATION FINDINGS WORKSHEET
Internal Standards

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Are all internal standard recoveries were within the QC criteria?
Y N N/A Was the S/N ratio all internal standard peaks ≥ 10?

(I)

#	Date	Lab ID/Reference	Internal Standard	% Recovery (QC limits)	Qualifications
		10362001-MB	B	6 (35-197)	J/UJ/P qual A
				( )	
				( )	
		2	B	4 (25-164)	J/UJ/P ↓
				( )	
		3	B	16 (25-164)	↓ ↓
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	Internal Standards	Check Standard Used		Internal Standards	Check Standard Used
A.	^{13}C-2,3,7,8-TCDF		G.	^{13}C-1,2,3,4,6,7,8-HpCDF	
B.	^{13}C-2,3,7,8-TCDD		H.	^{13}C-1,2,3,4,6,7,8-HpCDD	
C.	^{13}C-1,2,3,7,8-PeCDF		I.	^{13}C-OCDD	
D.	^{13}C-1,2,3,7,8-PeCDD		K.	^{13}C-1,2,3,4-TCDD	
E.	^{13}C-1,2,3,4,7,8-HxCDF		L.	^{13}C-1,2,3,7,8,9-HxCDD	
F.	^{13}C-1,2,3,6,7,8-HxCDD				

LDC #: 25550M2 /

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FF
2nd Reviewer: [illegible]

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A". *

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
		F, G	x'd cal range	1,4	J/Pdet (* X I)

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25550M2 /

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: [signature]

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	~~Sample ID~~ compd	Finding	Associated Samples	Qualifications
		H	~~original~~ result on DB-5MS	1, 7	R/A * XIII
		H	~~confirmation result~~ results on SP2331	15, 17	R/A * XIII

Comments: _____

LDC#: 25550M21

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer:
2nd Reviewer:

METHOD: Method 1613B

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

* EMPC

(FD)

Compound	Concentration (ng/Kg)		≤50 RPD	
	15	17		
H	4.94	4.44	11	
A	0.0424*	0.0511U	200	J/UJ/A
I	1.94	2.12	9	
J	0.819	0.809	1	
B	0.256	0.283*	10	
K	0.430	0.388*	10	
L	0.379	0.404*	6	
M	0.516	0.438	16	
C	0.178*	0.230	25	
D	0.893*	0.918	3	
E	0.927	0.990	7	
N	0.430	0.473	10	
O	2.18	2.11	3	
F	8.87	8.71	2	
P	0.230	0.261*	13	
G	70.8	62.3	13	
Q	3.65	3.16	14	

LDC #: 25550M21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS3 std)	Recalculated RRF (CS3 std)	Reported %RSD	Recalculated %RSD
1	ICAL DB5MS	1/25/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.938	0.938	0.946	0.946	4.88	4.88
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.084	1.084	1.087	1.087	4.03	4.03
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.934	0.934	0.953	0.953	4.23	4.23
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.014	1.014	1.029	1.029	3.64	3.64
			OCDF (^{13}C-OCDF)	0.930	0.930	0.949	0.949	2.53	2.53
2	ICAL DB5MS	10/26/10	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.024	1.024	1.010	1.010	3.60	3.60
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.131	1.131	1.078	1.078	9.43	9.43
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.969	0.969	1.002	1002	2.30	2.30
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.039	1.039	1.065	1.065	2.17	2.17
			OCDF (^{13}C-OCDF)	0.962	0.962	0.975	0.975	1.13	1.13
3	ICAL SP233	9/29/10	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.950	0.950	0.960	0.960	2.26	2.26
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550M2/

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Conc Average RRF (Initial)	Reported RRF (CC) conc.	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV SP233/	2/6/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF) conc.	10.0	9.660	9.660	97	97
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDF)					
2	CCV DB5MS	2/7/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.40	10.40	104	104
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.050	10.050	100	100
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	54.400	54.40	109	109
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	54.750	54.750	110	110
			OCDF (^{13}C-OCDF)	100.0	99.290	99.290	99	99
3	CCV DB5MS	1/27/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.020	10.020	100	100
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.0	10.0	100	100
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	51.350	51.350	103	103
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.180	50.180	100	100
			OCDF (^{13}C-OCDF)	100.0	99.750	99.750	100	100

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25550M21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %R	Recalculated %R
1	ccv DB5MS	1/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.010	10.010	100	100
	15:52		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.070	10.070	101	101
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.440	50.440	101	101
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	49.810	49.810	100	100
			OCDF (^{13}C-OCDD)	100.00	99.330	99.330	99	99
2	ccv DB5MS	1/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.230	10.230	102	102
	16:50		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.390	10.390	104	104
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.850	50.850	102	102
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.48	50.48	101	101
			OCDF (^{13}C-OCDD)	100.0	99.870	99.870	100	100
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25350421

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result; SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 22 +23

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	-----	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	24.7	24.7	0	26.1	25.9	106	106	105	105	1	1
1,2,3,7,8-PeCDD	124	124	0.283	132	129	106	106	104	104	2	2
1,2,3,4,7,8-HxCDD	124	124	0.230	131	125	106	106	101	101	5	5
1,2,3,4,7,8,9-HpCDF	124	124	0.261	127	123	102	102	99	99	3	3
OCDF	247	247	3.16	263	257	105	105	103	103	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 25534 2/

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: FT
2nd Reviewer: [signature]

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS ex 1/12/11

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	21.3	NA	106	106				
1,2,3,7,8-PeCDD	100		101		101	101				
1,2,3,4,7,8-HxCDD	100		99.1		99	99				
1,2,3,4,7,8,9-HpCDF	100		98.3		98	98				
OCDF	200	↓	198	↓	99	99	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

SAMPLE DELIVERY GROUP

DX033

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Dec-2010	SED-002-SIV-SD-0.0-0.5	6172363	N	METHOD	1613B	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MS	6172364	MS	METHOD	1613B	III
21-Dec-2010	SED-002-SIV-SD-0.0-0.5MSD	6172365	MSD	METHOD	1613B	III
21-Dec-2010	DUP02-SIV-QC-122110	6172362	FD	METHOD	1613B	III
21-Dec-2010	SED-039-SIV-SD-0.0-0.5	6172369	N	METHOD	1613B	III
21-Dec-2010	SED-036-SIV-SD-0.0-0.5	6172367	N	METHOD	1613B	III
21-Dec-2010	SED-015-SIV-SD-0.0-0.5	6172366	N	METHOD	1613B	III
21-Dec-2010	SED-038-SIV-SD-0.0-0.5	6172368	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: DUP02-SIV-QC-122110 ***Collected:*** 12/21/2010 9:52:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.04	JBQ	0.0419	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.494	JB	0.0197	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0821	JBQ	0.0283	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0497	JB	0.0383	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0820	JBQ	0.0270	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.183	JBQ	0.0385	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0237	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.190	JB	0.0382	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.100	JB	0.0285	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0676	JBQ	0.0382	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.177	JBQ	0.0270	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.138	JB	0.0250	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.314	JBQ	0.0268	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.176	JQ	0.0565	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	0.904	JB	0.0465	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SED-002-SIV-SD-0.0-0.5 ***Collected:*** 12/21/2010 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.08	JB	0.0438	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.578	JB	0.0245	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0704	JB	0.0337	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0793	JBQ	0.0421	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0899	JBQ	0.0312	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.149	JBQ	0.0432	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0958	JBQ	0.0279	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.203	JB	0.0422	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.112	JBQ	0.0348	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0842	JBQ	0.0465	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.201	JB	0.0301	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JB	0.0306	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.304	JB	0.0300	MDL	5.98	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.112	JQ	0.0642	MDL	1.20	PQL	ng/Kg	J	Z
OCDF	1.09	JBQ	0.0444	MDL	12.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX033 **Laboratory:** LL

EDD Filename: DX033_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-015-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.17	JB	0.0577	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0329	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.314	JBQ	0.0447	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.281	JB	0.0583	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.334	JB	0.0461	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.511	JB	0.0613	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.373	JB	0.0422	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.524	JB	0.0598	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.331	JB	0.0521	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.419	JB	0.0572	MDL	6.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.452	JB	0.0400	MDL	6.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.510	JB	0.0465	MDL	6.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.787	JB	0.0387	MDL	6.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.349	JQ	0.0932	MDL	1.30	PQL	ng/Kg	J	Z
OCDF	2.04	JB	0.0478	MDL	13.0	PQL	ng/Kg	J	Z

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.22	JB	0.0513	MDL	6.32	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.321	JBQ	0.0198	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0505	JBQ	0.0263	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0608	JB	0.0402	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0784	JBQ	0.0281	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.106	JBQ	0.0431	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0969	JB	0.0244	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0675	JB	0.0407	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0759	JB	0.0288	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.112	JBQ	0.0473	MDL	6.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JBQ	0.0298	MDL	6.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JB	0.0260	MDL	6.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.299	JBQ	0.0287	MDL	6.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.175	JQ	0.0689	MDL	1.26	PQL	ng/Kg	J	Z
OCDD	6.76	JB	0.0416	MDL	12.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SED-036-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 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
OCDF	0.491	JB	0.0539	MDL	12.6	PQL	ng/Kg	U	B

Sample ID: SED-038-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.10	JB	0.115	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.89	JB	0.126	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.670	JB	0.113	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.665	JB	0.0992	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.358	JB	0.126	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.51	JB	0.180	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.274	JB	0.0673	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.07	JB	0.108	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.598	JB	0.0695	MDL	5.72	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.145	JQ	0.111	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.217	JQ	0.125	MDL	1.14	PQL	ng/Kg	J	Z

Sample ID: SED-039-SIV-SD-0.0-0.5 *Collected:* 12/21/2010 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.51	JB	0.0649	MDL	6.63	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.459	JB	0.0282	MDL	6.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0903	JB	0.0443	MDL	6.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.114	JBQ	0.0493	MDL	6.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.150	JB	0.0390	MDL	6.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.257	JBQ	0.0513	MDL	6.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.108	JB	0.0332	MDL	6.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.217	JBQ	0.0475	MDL	6.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0824	JBQ	0.0434	MDL	6.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.223	JBQ	0.0637	MDL	6.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.175	JB	0.0381	MDL	6.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.107	JB	0.0359	MDL	6.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.353	JBQ	0.0365	MDL	6.63	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.172	JQ	0.0889	MDL	1.33	PQL	ng/Kg	J	Z
OCDF	0.901	JBQ	0.0650	MDL	13.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category:	**SVOA**		
Method:	**1613B**	***Matrix:***	**SO**

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX033

Laboratory: LL

EDD Filename: DX033_v1

eQAPP Name: CDM_SSFL_110509

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX033

Method Blank Outlier Report

Lab Reporting Batch ID: DX033

Laboratory: LL

EDD Filename: DX033_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB370617	1/29/2011 6:17:00 AM	1,2,3,4,6,7,8-HPCDD	0.179 ng/Kg	DUP02-SIV-QC-122110
		1,2,3,4,6,7,8-HPCDF	0.0827 ng/Kg	SED-002-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0521 ng/Kg	SED-015-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0203 ng/Kg	SED-036-SIV-SD-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0517 ng/Kg	SED-038-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0286 ng/Kg	SED-039-SIV-SD-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0385 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0508 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0382 ng/Kg	
		1,2,3,7,8-PECDD	0.0434 ng/Kg	
		1,2,3,7,8-PECDF	0.0412 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0441 ng/Kg	
		2,3,4,7,8-PECDF	0.0797 ng/Kg	
		OCDD	0.535 ng/Kg	
		OCDF	0.232 ng/Kg	

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP02-SIV-QC-122110(RES)	1,2,3,4,7,8,9-HPCDF	0.0821 ng/Kg	0.0821U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,4,7,8-HxCDD	0.0497 ng/Kg	0.0497U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,4,7,8-HXCDF	0.0820 ng/Kg	0.0820U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,7,8,9-HXCDD	0.190 ng/Kg	0.190U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,7,8,9-HXCDF	0.100 ng/Kg	0.100U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,7,8-PECDD	0.0676 ng/Kg	0.0676U ng/Kg
DUP02-SIV-QC-122110(RES)	1,2,3,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
DUP02-SIV-QC-122110(RES)	2,3,4,6,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
DUP02-SIV-QC-122110(RES)	2,3,4,7,8-PECDF	0.314 ng/Kg	0.314U ng/Kg
DUP02-SIV-QC-122110(RES)	OCDF	0.904 ng/Kg	0.904U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0704 ng/Kg	0.0704U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0793 ng/Kg	0.0793U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0899 ng/Kg	0.0899U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0958 ng/Kg	0.0958U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.203 ng/Kg	0.203U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0842 ng/Kg	0.0842U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.201 ng/Kg	0.201U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.304 ng/Kg	0.304U ng/Kg
SED-002-SIV-SD-0.0-0.5(RES)	OCDF	1.09 ng/Kg	1.09U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.321 ng/Kg	0.321U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0505 ng/Kg	0.0505U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0608 ng/Kg	0.0608U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0784 ng/Kg	0.0784U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0675 ng/Kg	0.0675U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0759 ng/Kg	0.0759U ng/Kg

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX033

Laboratory: LL

EDD Filename: DX033_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.112 ng/Kg	0.112U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SED-036-SIV-SD-0.0-0.5(RES)	OCDF	0.491 ng/Kg	0.491U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0903 ng/Kg	0.0903U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.217 ng/Kg	0.217U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0824 ng/Kg	0.0824U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.175 ng/Kg	0.175U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.353 ng/Kg	0.353U ng/Kg
SED-039-SIV-SD-0.0-0.5(RES)	OCDF	0.901 ng/Kg	0.901U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
MOISTURE	16.4	15.9	3		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SED-002-SIV-SD-0.0-0.5	DUP02-SIV-QC-122110			
1,2,3,4,6,7,8-HPCDD	2.08	2.04	2	50.00	
1,2,3,4,6,7,8-HPCDF	0.578	0.494	16	50.00	
1,2,3,4,7,8,9-HPCDF	0.0704	0.0821	15	50.00	
1,2,3,4,7,8-HxCDD	0.0793	0.0497	46	50.00	
1,2,3,4,7,8-HXCDF	0.0899	0.0820	9	50.00	
1,2,3,6,7,8-HXCDD	0.149	0.183	20	50.00	
1,2,3,6,7,8-HXCDF	0.0958	0.117	20	50.00	
1,2,3,7,8,9-HXCDD	0.203	0.190	7	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.112	0.100	11	50.00	
1,2,3,7,8-PECDD	0.0842	0.0676	22	50.00	
1,2,3,7,8-PECDF	0.201	0.177	13	50.00	
2,3,4,6,7,8-HXCDF	0.110	0.138	23	50.00	
2,3,4,7,8-PECDF	0.304	0.314	3	50.00	
2,3,7,8-TCDF	0.112	0.176	44	50.00	
OCDD	13.8	14.7	6	50.00	
OCDF	1.09	0.904	19	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SIV-QC-122110	1,2,3,4,6,7,8-HPCDD	JBQ	2.04	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.494	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0821	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0497	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0820	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.183	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.190	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.100	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0676	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.177	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.138	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.314	5.95	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.176	1.19	PQL	ng/Kg	
	OCDF	JB	0.904	11.9	PQL	ng/Kg	
SED-002-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.08	5.98	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.578	5.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0704	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0793	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0899	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.149	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0958	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.203	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.112	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0842	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.201	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.110	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.304	5.98	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.112	1.20	PQL	ng/Kg	
	OCDF	JBQ	1.09	12.0	PQL	ng/Kg	
SED-015-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.17	6.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.12	6.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.314	6.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.281	6.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.334	6.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.511	6.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.373	6.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.524	6.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.331	6.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.419	6.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.452	6.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.510	6.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.787	6.51	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.349	1.30	PQL	ng/Kg	
	OCDF	JB	2.04	13.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX033 **Laboratory: LL**

EDD Filename: DX033_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-036-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.22	6.32	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.321	6.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0505	6.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0608	6.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0784	6.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.106	6.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0969	6.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0675	6.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0759	6.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.112	6.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	6.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.131	6.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.299	6.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.175	1.26	PQL	ng/Kg	
	OCDD	JB	6.76	12.6	PQL	ng/Kg	
	OCDF	JB	0.491	12.6	PQL	ng/Kg	
SED-038-SIV-SD-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.10	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.89	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.670	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.665	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.358	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.51	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.274	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.07	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.598	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.145	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.217	1.14	PQL	ng/Kg	
SED-039-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.51	6.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.459	6.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0903	6.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.114	6.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	6.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.257	6.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.108	6.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.217	6.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0824	6.63	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.223	6.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.175	6.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.107	6.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.353	6.63	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.172	1.33	PQL	ng/Kg	
	OCDF	JBQ	0.901	13.3	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX034

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Dec-2010	SL-101-SA5B-SS-0.0-0.5	6173201	N	METHOD	1613B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5	6173204	N	METHOD	1613B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MS	6173205	MS	METHOD	1613B	III
22-Dec-2010	SL-100-SA5B-SS-0.0-0.5MSD	6173206	MSD	METHOD	1613B	III
22-Dec-2010	DUP10-SA5B-QC-122210	6173197	FD	METHOD	1613B	III
22-Dec-2010	SL-118-SA5B-SS-0.0-0.5	6173203	N	METHOD	1613B	III
22-Dec-2010	SL-114-SA5B-SS-0.0-0.5	6173207	N	METHOD	1613B	III
22-Dec-2010	SL-117-SA5B-SS-0.0-0.5	6173202	N	METHOD	1613B	III
22-Dec-2010	SL-102-SA5B-SS-0.0-0.5	6173208	N	METHOD	1613B	III
22-Dec-2010	SL-024-SA5B-SS-0.0-0.5	6173209	N	METHOD	1613B	III
22-Dec-2010	SED-010-SIV-SD-0.0-0.5	6173200	N	METHOD	1613B	III
22-Dec-2010	SL-157-SA5B-SB-4.0-5.0	6173210	N	METHOD	1613B	III
22-Dec-2010	SL-157-SA5B-SB-9.0-10.0	6173212	N	METHOD	1613B	III
22-Dec-2010	EB08-SA5B-122210	6173198	EB	METHOD	1613B	III
22-Dec-2010	SL-158-SA5B-SB-4.0-5.0	6173211	N	METHOD	1613B	III
22-Dec-2010	FB06-SA5B-122210	6173199	FB	METHOD	1613B	III
22-Dec-2010	SL-145-SA5B-SB-4.0-5.0	6173213	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB08-SA5B-122210 *Collected:* 12/22/2010 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.915	JB	0.158	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.921	JB	0.0946	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.383	JB	0.139	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.253	JBQ	0.0735	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.201	JBQ	0.0711	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.167	JBQ	0.0534	MDL	10.7	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.242	JBQ	0.0701	MDL	10.7	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.512	JBQ	0.0479	MDL	10.7	PQL	pg/L	U	B
2,3,7,8-TCDD	0.134	JBQ	0.0904	MDL	2.13	PQL	pg/L	U	B
2,3,7,8-TCDF	0.122	JBQ	0.0724	MDL	2.13	PQL	pg/L	U	B
OCDD	2.88	JBQ	0.291	MDL	21.3	PQL	pg/L	U	B
OCDF	0.642	JBQ	0.257	MDL	21.3	PQL	pg/L	U	B

Sample ID: FB06-SA5B-122210 *Collected:* 12/22/2010 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.685	JB	0.134	MDL	10.0	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.778	JB	0.0623	MDL	10.0	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.127	JBQ	0.0833	MDL	10.0	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.212	JBQ	0.0549	MDL	10.0	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.115	JBQ	0.0514	MDL	10.0	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.114	JB	0.0880	MDL	10.0	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.190	JBQ	0.0622	MDL	10.0	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.172	JBQ	0.117	MDL	10.0	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.0462	JBQ	0.0461	MDL	10.0	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.213	JBQ	0.0527	MDL	10.0	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.407	JBQ	0.0439	MDL	10.0	PQL	pg/L	U	B
OCDD	1.83	JBQ	0.331	MDL	20.1	PQL	pg/L	U	B
OCDF	0.765	JBQ	0.198	MDL	20.1	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX034 **Laboratory:** LL

EDD Filename: DX034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP10-SA5B-QC-122210 *Collected:* 12/22/2010 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.71	JB	0.0402	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.693	JB	0.0497	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.660	JB	0.0756	MDL	5.79	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.456	JB	0.0524	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.62	J	0.0762	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JBQ	0.0348	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.12	J	0.0761	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.211	JBQ	0.0429	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.284	JQ	0.0622	MDL	5.79	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.214	JBQ	0.0151	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.501	JB	0.0359	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.184	JB	0.0181	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0317	JQ	0.0284	MDL	1.16	PQL	ng/Kg	J	Z, FD

Sample ID: SED-010-SIV-SD-0.0-0.5 *Collected:* 12/22/2010 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.09	JB	0.0226	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0939	JBQ	0.0291	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JBQ	0.0512	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.287	JBQ	0.0288	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.467	J	0.0525	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.179	JBQ	0.0228	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.368	J	0.0502	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0739	JBQ	0.0254	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.220	JQ	0.0364	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.169	JBQ	0.0155	MDL	6.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.220	JB	0.0237	MDL	6.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.397	JB	0.0197	MDL	6.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0453	J	0.0269	MDL	1.22	PQL	ng/Kg	J	Z
OCDF	2.13	JB	0.0333	MDL	12.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX034 **Laboratory:** LL

EDD Filename: DX034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-024-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 10:01:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.949	JB	0.0273	MDL	6.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.228	JB	0.0357	MDL	6.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.156	JB	0.0466	MDL	6.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.202	JB	0.0356	MDL	6.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.372	J	0.0464	MDL	6.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.154	JB	0.0257	MDL	6.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.299	J	0.0445	MDL	6.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.227	JB	0.0276	MDL	6.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.104	J	0.0262	MDL	6.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.122	JBQ	0.0123	MDL	6.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.228	JB	0.0228	MDL	6.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.109	JBQ	0.0135	MDL	6.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0363	JBQ	0.0330	MDL	1.25	PQL	ng/Kg	U	B
OCDF	2.68	JB	0.0425	MDL	12.5	PQL	ng/Kg	J	Z

Sample ID: SL-100-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 9:02:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.69	JB	0.0357	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.499	JB	0.0487	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.336	JB	0.0827	MDL	5.81	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.324	JB	0.0364	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.72	J	0.0849	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JBQ	0.0298	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.723	J	0.0810	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0358	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.147	JQ	0.0597	MDL	5.81	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.160	JBQ	0.0142	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.335	JB	0.0321	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.208	JB	0.0160	MDL	5.81	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0276	U	0.0276	MDL	1.16	PQL	ng/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX034 **Laboratory:** LL

EDD Filename: DX034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-101-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 9:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.567	JB	0.0405	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0516	JB	0.0196	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0292	JBQ	0.0220	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.214	J	0.0291	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0320	JBQ	0.0155	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.323	J	0.0290	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.303	JB	0.0174	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0462	JQ	0.0340	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0545	JBQ	0.00789	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0452	JB	0.00872	MDL	5.89	PQL	ng/Kg	U	B
OCDD	3.59	JB	0.0578	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.246	JBQ	0.0490	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-102-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 9:36:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.65	JB	0.0458	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.487	JB	0.0423	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.274	JBQ	0.0592	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.321	JBQ	0.0461	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.993	J	0.0583	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.270	JBQ	0.0338	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.633	J	0.0525	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.154	JB	0.0304	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.140	J	0.0379	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.124	JBQ	0.0154	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.267	JB	0.0278	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.122	JBQ	0.0176	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0606	JBQ	0.0428	MDL	1.13	PQL	ng/Kg	U	B

Sample ID: SL-114-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 9:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.19	JB	0.0362	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.372	JBQ	0.0471	MDL	6.23	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX034 **Laboratory:** LL

EDD Filename: DX034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-114-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.285	JBQ	0.0636	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.331	JB	0.0352	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.969	J	0.0651	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.295	JB	0.0315	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.758	J	0.0651	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.224	JBQ	0.0300	MDL	6.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.253	J	0.0355	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.183	JB	0.0142	MDL	6.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.249	JB	0.0294	MDL	6.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.148	JBQ	0.0151	MDL	6.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0498	JQ	0.0228	MDL	1.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0312	JBQ	0.0307	MDL	1.25	PQL	ng/Kg	U	B
OCDF	10.4	JB	0.0369	MDL	12.5	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA5B-SS-0.0-0.5 *Collected:* 12/22/2010 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.26	JB	0.0602	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.346	JB	0.0230	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0324	JB	0.0305	MDL	6.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0337	JBQ	0.0246	MDL	6.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0334	JBQ	0.0195	MDL	6.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0782	JQ	0.0264	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0318	JBQ	0.0159	MDL	6.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0933	JQ	0.0258	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0327	JB	0.0175	MDL	6.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0485	JQ	0.0284	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0459	JB	0.0104	MDL	6.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0298	JBQ	0.0136	MDL	6.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0663	JBQ	0.0112	MDL	6.20	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0344	JQ	0.0227	MDL	1.24	PQL	ng/Kg	J	Z
OCDF	1.04	JBQ	0.0442	MDL	12.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-007-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX034 **Laboratory:** LL

EDD Filename: DX034_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-118-SA5B-SS-0.0-0.5 ***Collected:*** 12/22/2010 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.29	JB	0.0290	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.157	JBQ	0.0320	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.124	JB	0.0488	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.134	JB	0.0382	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.390	JQ	0.0482	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.127	JBQ	0.0301	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.318	J	0.0467	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.200	JBQ	0.0297	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0471	JQ	0.0309	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.104	JB	0.0178	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0877	JBQ	0.0282	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.287	JBQ	0.0170	MDL	5.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0377	JBQ	0.0367	MDL	1.18	PQL	ng/Kg	U	B
OCDF	4.02	JB	0.0435	MDL	11.8	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA5B-SB-4.0-5.0 ***Collected:*** 12/22/2010 2:54:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.251	JB	0.0280	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0803	JBQ	0.0168	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0257	JBQ	0.0167	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0352	JBQ	0.0192	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.126	JQ	0.0193	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0161	JB	0.0124	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.182	JQ	0.0191	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.268	JB	0.0119	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0271	J	0.0260	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0333	JBQ	0.00709	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0315	JB	0.0114	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0551	JBQ	0.00847	MDL	5.72	PQL	ng/Kg	U	B
OCDD	1.37	JBQ	0.0307	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.134	JB	0.0244	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX034
EDD Filename: DX034_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 1613B **Matrix:** SO

Sample ID: SL-157-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 10:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JB	0.0349	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.213	JB	0.0184	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0557	JB	0.0231	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0315	JBQ	0.0279	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0722	JBQ	0.0293	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.416	JQ	0.0261	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0787	JBQ	0.0182	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.557	J	0.0233	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.324	JBQ	0.0172	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0595	JQ	0.0232	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.108	JB	0.00823	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0783	JBQ	0.0156	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.113	JB	0.0104	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0410	JBQ	0.0234	MDL	1.10	PQL	ng/Kg	U	B
OCDF	0.566	JBQ	0.0403	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.294	JB	0.0279	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0436	JB	0.0129	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JBQ	0.0172	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0248	JBQ	0.0183	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0361	JB	0.0158	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0946	JQ	0.0184	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0250	JBQ	0.0118	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.199	JQ	0.0179	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JB	0.0129	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0256	JQ	0.0204	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0315	JBQ	0.00702	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0117	JBQ	0.0111	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0464	JBQ	0.00758	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0194	JQ	0.0171	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.64	JB	0.0320	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX034
Laboratory: LL
EDD Filename: DX034_v1
eQAPP Name: CDM_SSFL_110509

Method Category: SVOA
Method: 1613B **Matrix:** SO

Sample ID: SL-157-SA5B-SB-9.0-10.0 *Collected:* 12/22/2010 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
OCDF	0.141	JB	0.0247	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-158-SA5B-SB-4.0-5.0 *Collected:* 12/22/2010 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.636	JBQ	0.0316	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.119	JBQ	0.0150	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0346	JBQ	0.0178	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0499	JBQ	0.0186	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.380	J	0.0293	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0743	JBQ	0.0145	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.742	J	0.0271	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.441	JB	0.0162	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0711	J	0.0254	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0608	JBQ	0.0103	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0421	JB	0.0139	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0667	JBQ	0.0114	MDL	5.54	PQL	ng/Kg	U	B
OCDD	9.91	JB	0.0299	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.258	JB	0.0253	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX034
EDD Filename: DX034_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
	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: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX034

Method Blank Outlier Report

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB371225	1/20/2011 12:25:00 PM	1,2,3,4,6,7,8-HPCDD	2.11 pg/L	EB08-SA5B-122210
		1,2,3,4,6,7,8-HPCDF	1.21 pg/L	FB06-SA5B-122210
		1,2,3,4,7,8,9-HPCDF	0.676 pg/L	
		1,2,3,4,7,8-HxCDD	0.582 pg/L	
		1,2,3,4,7,8-HXCDF	0.509 pg/L	
		1,2,3,6,7,8-HXCDD	0.636 pg/L	
		1,2,3,6,7,8-HXCDF	0.532 pg/L	
		1,2,3,7,8,9-HXCDD	0.695 pg/L	
		1,2,3,7,8,9-HXCDF	0.680 pg/L	
		1,2,3,7,8-PECDD	0.436 pg/L	
		1,2,3,7,8-PECDF	0.316 pg/L	
		2,3,4,6,7,8-HXCDF	0.551 pg/L	
		2,3,4,7,8-PECDF	0.610 pg/L	
		2,3,7,8-TCDD	0.196 pg/L	
		2,3,7,8-TCDF	0.133 pg/L	
		OCDD	7.03 pg/L	
		OCDF	3.35 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5B-122210(RES)	1,2,3,4,6,7,8-HPCDD	0.915 pg/L	0.915U pg/L
EB08-SA5B-122210(RES)	1,2,3,4,6,7,8-HPCDF	0.921 pg/L	0.921U pg/L
EB08-SA5B-122210(RES)	1,2,3,4,7,8,9-HPCDF	0.383 pg/L	0.383U pg/L
EB08-SA5B-122210(RES)	1,2,3,4,7,8-HXCDF	0.253 pg/L	0.253U pg/L
EB08-SA5B-122210(RES)	1,2,3,6,7,8-HXCDF	0.201 pg/L	0.201U pg/L
EB08-SA5B-122210(RES)	1,2,3,7,8-PECDF	0.167 pg/L	0.167U pg/L
EB08-SA5B-122210(RES)	2,3,4,6,7,8-HXCDF	0.242 pg/L	0.242U pg/L
EB08-SA5B-122210(RES)	2,3,4,7,8-PECDF	0.512 pg/L	0.512U pg/L
EB08-SA5B-122210(RES)	2,3,7,8-TCDD	0.134 pg/L	0.134U pg/L
EB08-SA5B-122210(RES)	2,3,7,8-TCDF	0.122 pg/L	0.122U pg/L
EB08-SA5B-122210(RES)	OCDD	2.88 pg/L	2.88U pg/L
EB08-SA5B-122210(RES)	OCDF	0.642 pg/L	0.642U pg/L
FB06-SA5B-122210(RES)	1,2,3,4,6,7,8-HPCDD	0.685 pg/L	0.685U pg/L
FB06-SA5B-122210(RES)	1,2,3,4,6,7,8-HPCDF	0.778 pg/L	0.778U pg/L
FB06-SA5B-122210(RES)	1,2,3,4,7,8,9-HPCDF	0.127 pg/L	0.127U pg/L
FB06-SA5B-122210(RES)	1,2,3,4,7,8-HXCDF	0.212 pg/L	0.212U pg/L
FB06-SA5B-122210(RES)	1,2,3,6,7,8-HXCDF	0.115 pg/L	0.115U pg/L
FB06-SA5B-122210(RES)	1,2,3,7,8,9-HXCDD	0.114 pg/L	0.114U pg/L
FB06-SA5B-122210(RES)	1,2,3,7,8,9-HXCDF	0.190 pg/L	0.190U pg/L
FB06-SA5B-122210(RES)	1,2,3,7,8-PECDD	0.172 pg/L	0.172U pg/L
FB06-SA5B-122210(RES)	1,2,3,7,8-PECDF	0.0462 pg/L	0.0462U pg/L
FB06-SA5B-122210(RES)	2,3,4,6,7,8-HXCDF	0.213 pg/L	0.213U pg/L
FB06-SA5B-122210(RES)	2,3,4,7,8-PECDF	0.407 pg/L	0.407U pg/L
FB06-SA5B-122210(RES)	OCDD	1.83 pg/L	1.83U pg/L
FB06-SA5B-122210(RES)	OCDF	0.765 pg/L	0.765U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB370516	1/30/2011 5:16:00 AM	1,2,3,4,6,7,8-HPCDD	0.244 ng/Kg	DUP10-SA5B-QC-122210
		1,2,3,4,6,7,8-HPCDF	0.0317 ng/Kg	SED-010-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0484 ng/Kg	SL-024-SA5B-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0290 ng/Kg	SL-100-SA5B-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0386 ng/Kg	SL-101-SA5B-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0440 ng/Kg	SL-102-SA5B-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0458 ng/Kg	SL-114-SA5B-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0353 ng/Kg	SL-117-SA5B-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0450 ng/Kg	SL-118-SA5B-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0543 ng/Kg	SL-145-SA5B-SB-4.0-5.0
		2,3,7,8-TCDF	0.0195 ng/Kg	SL-157-SA5B-SB-4.0-5.0
		OCDD	0.827 ng/Kg	SL-157-SA5B-SB-9.0-10.0
		OCDF	0.165 ng/Kg	SL-158-SA5B-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
DUP10-SA5B-QC-122210(RES)	1,2,3,7,8,9-HXCDF	0.211 ng/Kg	0.211U ng/Kg
DUP10-SA5B-QC-122210(RES)	2,3,4,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SED-010-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0939 ng/Kg	0.0939U ng/Kg
SED-010-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.127 ng/Kg	0.127U ng/Kg
SED-010-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SED-010-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0739 ng/Kg	0.0739U ng/Kg
SED-010-SIV-SD-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.169 ng/Kg	0.169U ng/Kg
SED-010-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.220 ng/Kg	0.220U ng/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.228 ng/Kg	0.228U ng/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.227 ng/Kg	0.227U ng/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.122 ng/Kg	0.122U ng/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-024-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-100-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SL-100-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-100-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.160 ng/Kg	0.160U ng/Kg
SL-100-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	0.567 ng/Kg	0.567U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0516 ng/Kg	0.0516U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0452 ng/Kg	0.0452U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	OCDD	3.59 ng/Kg	3.59U ng/Kg
SL-101-SA5B-SS-0.0-0.5(RES)	OCDF	0.248 ng/Kg	0.246U ng/Kg
SL-102-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-102-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-102-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.122 ng/Kg	0.122U ng/Kg
SL-102-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0606 ng/Kg	0.0606U ng/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.224 ng/Kg	0.224U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-114-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-114-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0324 ng/Kg	0.0324U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0337 ng/Kg	0.0337U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0334 ng/Kg	0.0334U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-117-SA5B-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0663 ng/Kg	0.0663U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.124 ng/Kg	0.124U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.200 ng/Kg	0.200U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.104 ng/Kg	0.104U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-118-SA5B-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.251 ng/Kg	0.251U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0352 ng/Kg	0.0352U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0161 ng/Kg	0.0161U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0315 ng/Kg	0.0315U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-145-SA5B-SB-4.0-5.0(RES)	OCDF	0.134 ng/Kg	0.134U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0315 ng/Kg	0.0315U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0722 ng/Kg	0.0722U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0787 ng/Kg	0.0787U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0783 ng/Kg	0.0783U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-157-SA5B-SB-4.0-5.0(RES)	OCDF	0.566 ng/Kg	0.566U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.294 ng/Kg	0.294U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX034

EDD Filename: DX034_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0248 ng/Kg	0.0248U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	0.0250U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0315 ng/Kg	0.0315U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0117 ng/Kg	0.0117U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0464 ng/Kg	0.0464U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	OCDD	1.64 ng/Kg	1.64U ng/Kg
SL-157-SA5B-SB-9.0-10.0(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.636 ng/Kg	0.636U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0346 ng/Kg	0.0346U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0743 ng/Kg	0.0743U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0608 ng/Kg	0.0608U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-158-SA5B-SB-4.0-5.0(RES)	OCDF	0.258 ng/Kg	0.258U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
MOISTURE	13.9	13.7	1		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-100-SA5B-SS-0.0-0.5	DUP10-SA5B-QC-122210			
1,2,3,4,6,7,8-HPCDD	53.1	69.0	26	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	4.69	5.71	20	50.00	
1,2,3,4,7,8,9-HPCDF	0.499	0.693	33	50.00	
1,2,3,4,7,8-HXCDF	0.324	0.456	34	50.00	
1,2,3,6,7,8-HXCDD	1.72	2.62	41	50.00	
1,2,3,6,7,8-HXCDF	0.215	0.328	42	50.00	
1,2,3,7,8,9-HXCDD	0.723	1.12	43	50.00	
1,2,3,7,8,9-HXCDF	0.135	0.211	44	50.00	
1,2,3,7,8-PECDF	0.160	0.214	29	50.00	
2,3,4,6,7,8-HXCDF	0.335	0.501	40	50.00	
2,3,4,7,8-PECDF	0.208	0.184	12	50.00	
OCDD	707	666	6	50.00	
OCDF	11.8	19.0	47	50.00	
1,2,3,4,7,8-HxCDD	0.336	0.660	65	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDD	0.147	0.284	64	50.00	
2,3,7,8-TCDD	1.16 U	0.0317	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX034

EDD Filename: DX034_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB08-SA5B-122210	1,2,3,4,6,7,8-HPCDD	JB	0.915	10.7	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.921	10.7	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.383	10.7	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.253	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.201	10.7	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.167	10.7	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.242	10.7	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.512	10.7	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.134	2.13	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.122	2.13	PQL	pg/L	
	OCDD	JBQ	2.88	21.3	PQL	pg/L	
	OCDF	JBQ	0.642	21.3	PQL	pg/L	
FB06-SA5B-122210	1,2,3,4,6,7,8-HPCDD	JB	0.685	10.0	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.778	10.0	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.127	10.0	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.212	10.0	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.115	10.0	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.114	10.0	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.190	10.0	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.172	10.0	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.0462	10.0	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.213	10.0	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.407	10.0	PQL	pg/L	
	OCDD	JBQ	1.83	20.1	PQL	pg/L	
	OCDF	JBQ	0.765	20.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA5B-QC-122210	1,2,3,4,6,7,8-HPCDF	JB	5.71	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.693	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.660	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.456	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.62	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.328	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.12	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.211	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.284	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.214	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.501	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.184	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0317	1.16	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX034

EDD Filename: DX034_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-010-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.09	6.11	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0939	6.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.127	6.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.287	6.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.467	6.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.179	6.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.368	6.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0739	6.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.220	6.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.169	6.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.220	6.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.397	6.11	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0453	1.22	PQL	ng/Kg	
	OCDF	JB	2.13	12.2	PQL	ng/Kg	
SL-024-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.949	6.27	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.228	6.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.156	6.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.202	6.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.372	6.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.154	6.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.299	6.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.227	6.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.104	6.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.122	6.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.228	6.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.109	6.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0363	1.25	PQL	ng/Kg	
	OCDF	JB	2.68	12.5	PQL	ng/Kg	
SL-100-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.69	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.499	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.336	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.324	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.72	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.215	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.723	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.147	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.160	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.335	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	5.81	PQL	ng/Kg	
SL-101-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	0.567	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0516	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0292	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.214	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0320	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.323	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.303	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0462	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0545	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0452	5.89	PQL	ng/Kg	
	OCDD	JB	3.59	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.246	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX034

EDD Filename: DX034_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.65	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.487	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.274	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.321	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.993	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.270	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.633	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.154	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.140	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.124	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.267	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.122	5.65	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0606	1.13	PQL	ng/Kg	
SL-114-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.19	6.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.372	6.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.285	6.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.331	6.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.969	6.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.295	6.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.758	6.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.224	6.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.253	6.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.183	6.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.249	6.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.148	6.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0498	1.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0312	1.25	PQL	ng/Kg	
	OCDF	JB	10.4	12.5	PQL	ng/Kg	
SL-117-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.26	6.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.346	6.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0324	6.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0337	6.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0334	6.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0782	6.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0318	6.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0933	6.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0327	6.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0485	6.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0459	6.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0298	6.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0663	6.20	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0344	1.24	PQL	ng/Kg	
	OCDF	JBQ	1.04	12.4	PQL	ng/Kg	
SL-118-SA5B-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.29	5.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.157	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.124	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.134	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.390	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.127	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.318	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.200	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0471	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.104	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0877	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.287	5.90	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0377	1.18	PQL	ng/Kg	
	OCDF	JB	4.02	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-145-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.251	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0803	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0257	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0352	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.126	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0161	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.182	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.268	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0271	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0333	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0315	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0551	5.72	PQL	ng/Kg	
	OCDD	JBQ	1.37	11.4	PQL	ng/Kg	
	OCDF	JB	0.134	11.4	PQL	ng/Kg	
SL-157-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.213	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0557	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0315	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0722	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.416	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0787	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.557	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.324	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0595	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.108	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0783	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	5.49	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0410	1.10	PQL	ng/Kg	
	OCDF	JBQ	0.566	11.0	PQL	ng/Kg	
SL-157-SA5B-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.294	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0436	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0415	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0248	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0361	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0946	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0250	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.199	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.169	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0256	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0315	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0117	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0464	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0194	1.11	PQL	ng/Kg	
	OCDD	JB	1.64	11.1	PQL	ng/Kg	
	OCDF	JB	0.141	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX034

Laboratory: LL

EDD Filename: DX034_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-158-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.636	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.119	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0346	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0499	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.380	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0743	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.742	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.441	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0711	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0608	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0421	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0667	5.54	PQL	ng/Kg	
	OCDD	JB	9.91	11.1	PQL	ng/Kg	
	OCDF	JB	0.258	11.1	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX038

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-Jan-2011	SL-087-SA5B-SB-3.0-4.0	6182716	N	METHOD	1613B	III
11-Jan-2011	SL-100-SA5B-SB-4.0-5.0	6182715	N	METHOD	1613B	III
11-Jan-2011	SL-099-SA5B-SB-4.0-5.0	6182714	N	METHOD	1613B	III
11-Jan-2011	SL-088-SA5B-SB-3.0-4.0	6182718	N	METHOD	1613B	III
11-Jan-2011	SL-085-SA5B-SB-3.0-4.0	6182717	N	METHOD	1613B	III
11-Jan-2011	SL-090-SA5B-SB-2.5-3.5	6182720	N	METHOD	1613B	III
11-Jan-2011	SL-089-SA5B-SB-4.0-5.0	6182719	N	METHOD	1613B	III
11-Jan-2011	SL-091-SA5B-SB-4.0-5.0	6182721	N	METHOD	1613B	III
11-Jan-2011	SL-093-SA5B-SB-3.0-4.0	6182724	N	METHOD	1613B	III
11-Jan-2011	SL-086-SA5B-SB-4.0-5.0	6182722	N	METHOD	1613B	III
11-Jan-2011	SL-094-SA5B-SB-4.0-5.0	6182723	N	METHOD	1613B	III
13-Jan-2011	SL-119-SA5B-SB-3.0-4.0	6183576	N	METHOD	1613B	III
13-Jan-2011	SED-009-SIV-SD-0.0-0.5	6183577	N	METHOD	1613B	III
13-Jan-2011	SL-121-SA5B-SB-4.0-5.0	6183573	N	METHOD	1613B	III
13-Jan-2011	SL-121-SA5B-SB-9.0-10.0	6183574	N	METHOD	1613B	III
13-Jan-2011	SED-028-SIV-SD-0.0-0.5	6183578	N	METHOD	1613B	III
13-Jan-2011	SL-120-SA5B-SB-3.0-4.0	6183575	N	METHOD	1613B	III
13-Jan-2011	EB21-SA5B-011311	6183581	EB	METHOD	1613B	III
13-Jan-2011	EB20-SA5B-011311	6183580	EB	METHOD	1613B	III
13-Jan-2011	SL-122-SA5B-SB-2.0-3.0	6183579	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB20-SA5B-011311 *Collected:* 1/13/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.25	JB	0.287	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	3.35	JB	0.147	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.385	JBQ	0.180	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.167	JBQ	0.145	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.640	JBQ	0.158	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.509	JBQ	0.150	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.378	JBQ	0.145	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.189	JQ	0.143	MDL	10.9	PQL	pg/L	J	Z
1,2,3,7,8-PECDF	0.132	JBQ	0.0897	MDL	10.9	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.725	JB	0.138	MDL	10.9	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.481	JBQ	0.0832	MDL	10.9	PQL	pg/L	U	B
OCDD	5.27	JB	0.306	MDL	21.7	PQL	pg/L	U	B
OCDF	2.41	JB	0.293	MDL	21.7	PQL	pg/L	U	B

Sample ID: EB21-SA5B-011311 *Collected:* 1/13/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.75	JBQ	0.319	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	3.69	JBQ	0.144	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.282	JBQ	0.160	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.477	JBQ	0.149	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.581	JBQ	0.141	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.360	JQ	0.177	MDL	10.2	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDF	0.313	JBQ	0.150	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.173	JBQ	0.103	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.656	JBQ	0.134	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.660	JBQ	0.0953	MDL	10.2	PQL	pg/L	U	B
OCDD	4.78	JB	0.387	MDL	20.3	PQL	pg/L	U	B
OCDF	2.42	JBQ	0.302	MDL	20.3	PQL	pg/L	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SED-009-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.52	JB	0.0378	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.158	JB	0.0489	MDL	6.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.183	JQ	0.0590	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.531	JBQ	0.0460	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.490	JQ	0.0620	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.282	JBQ	0.0401	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.354	JQ	0.0575	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0676	JBQ	0.0452	MDL	6.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.245	JQ	0.0590	MDL	6.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.618	J	0.0618	MDL	6.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.275	JBQ	0.0405	MDL	6.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.956	J	0.0582	MDL	6.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.338	JQ	0.162	MDL	1.31	PQL	ng/Kg	J	Z
OCDF	2.84	JB	0.0610	MDL	13.1	PQL	ng/Kg	J	Z

Sample ID: SED-028-SIV-SD-0.0-0.5 *Collected:* 1/13/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.91	JB	0.0559	MDL	7.08	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.663	JB	0.0235	MDL	7.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0991	JBQ	0.0343	MDL	7.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.123	J	0.0441	MDL	7.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.163	JBQ	0.0303	MDL	7.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.226	J	0.0443	MDL	7.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0995	JBQ	0.0266	MDL	7.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.156	J	0.0452	MDL	7.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.206	J	0.0320	MDL	7.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.137	JBQ	0.0279	MDL	7.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.266	JQ	0.0313	MDL	7.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0948	J	0.0707	MDL	1.42	PQL	ng/Kg	J	Z
OCDF	1.72	JB	0.0690	MDL	14.2	PQL	ng/Kg	J	Z

Sample ID: SL-085-SA5B-SB-3.0-4.0 *Collected:* 1/11/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.299	JB	0.0519	MDL	5.42	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-085-SA5B-SB-3.0-4.0 ***Collected:*** 1/11/2011 11:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.337	JB	0.0349	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.127	JB	0.0484	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0421	JQ	0.0353	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0511	JQ	0.0355	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0814	JB	0.0251	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0533	JQ	0.0343	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0607	JB	0.0290	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.125	JBQ	0.0254	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0604	JQ	0.0260	MDL	5.42	PQL	ng/Kg	J	Z
OCDD	1.00	JB	0.0431	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.383	JBQ	0.0694	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-086-SA5B-SB-4.0-5.0 ***Collected:*** 1/11/2011 4:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.189	JB	0.0368	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.319	JB	0.0172	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0381	JB	0.0220	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0638	JB	0.0228	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0427	JBQ	0.0182	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0263	JQ	0.0244	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0245	JB	0.0208	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0420	JQ	0.0182	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0787	JBQ	0.0189	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0742	JQ	0.0180	MDL	5.61	PQL	ng/Kg	J	Z
OCDD	0.706	JB	0.0443	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.288	JBQ	0.0494	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-087-SA5B-SB-3.0-4.0 ***Collected:*** 1/11/2011 9:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.335	JBQ	0.0423	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.383	JB	0.0197	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0389	JBQ	0.0240	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0494	JB	0.0214	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0390	JQ	0.0250	MDL	5.38	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-087-SA5B-SB-3.0-4.0 ***Collected:*** 1/11/2011 9:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0478	JB	0.0168	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0358	JB	0.0185	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0396	JQ	0.0186	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0917	JBQ	0.0173	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0969	J	0.0178	MDL	5.38	PQL	ng/Kg	J	Z
OCDD	1.10	JB	0.0340	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.332	JBQ	0.0538	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-088-SA5B-SB-3.0-4.0 ***Collected:*** 1/11/2011 10:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.16	JB	0.0509	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.354	JB	0.0606	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.268	J	0.0666	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.556	JB	0.0491	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.41	J	0.0658	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.391	JB	0.0431	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.14	J	0.0629	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.210	JBQ	0.0460	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.222	JQ	0.0538	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.577	J	0.0377	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.347	JBQ	0.0417	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.470	J	0.0363	MDL	5.58	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0924	J	0.0840	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	6.13	JB	0.0662	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA5B-SB-4.0-5.0 ***Collected:*** 1/11/2011 2:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.309	JB	0.0500	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.319	JBQ	0.0244	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0446	JB	0.0309	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0719	JB	0.0239	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0520	JBQ	0.0202	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0456	JQ	0.0278	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0434	JB	0.0222	MDL	5.75	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA5B-SB-4.0-5.0 *Collected:* 1/11/2011 2:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0928	JBQ	0.0198	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0793	JQ	0.0209	MDL	5.75	PQL	ng/Kg	J	Z
OCDD	1.40	JB	0.0608	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.349	JB	0.0610	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-090-SA5B-SB-2.5-3.5 *Collected:* 1/11/2011 1:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.93	JB	0.0475	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.472	JBQ	0.0199	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0474	JBQ	0.0283	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0304	JQ	0.0275	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0846	JB	0.0232	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	J	0.0285	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0780	JBQ	0.0187	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0954	J	0.0266	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0690	JB	0.0217	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0678	J	0.0178	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.107	JB	0.0185	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0743	JQ	0.0168	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0349	JQ	0.0349	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	1.04	JB	0.0552	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-091-SA5B-SB-4.0-5.0 *Collected:* 1/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.288	JB	0.0444	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.364	JB	0.0212	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0822	JBQ	0.0305	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0847	JBQ	0.0267	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0714	JQ	0.0337	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0847	JBQ	0.0233	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0444	JBQ	0.0270	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JQ	0.0392	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0981	JQ	0.0230	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JBQ	0.0246	MDL	5.69	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA5B-SB-4.0-5.0 **Collected:** 1/11/2011 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
2,3,4,7,8-PECDF	0.126	J	0.0224	MDL	5.69	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0666	JQ	0.0412	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0410	JQ	0.0395	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	0.882	JB	0.0499	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.283	JB	0.0630	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5B-SB-3.0-4.0 **Collected:** 1/11/2011 3:26:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.174	JB	0.0327	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.123	JBQ	0.0137	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0260	JBQ	0.0192	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0298	JBQ	0.0154	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0422	JQ	0.0265	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0271	JBQ	0.0136	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0709	J	0.0247	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0303	JBQ	0.0155	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0169	JQ	0.0144	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0414	JBQ	0.0143	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0536	JQ	0.0147	MDL	5.49	PQL	ng/Kg	J	Z
OCDD	0.774	JB	0.0393	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.110	JB	0.0465	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-094-SA5B-SB-4.0-5.0 **Collected:** 1/11/2011 4:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.207	JB	0.0368	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.112	JB	0.0145	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0255	JB	0.0206	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0411	JBQ	0.0155	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0197	JBQ	0.0134	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0340	JQ	0.0246	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0228	JBQ	0.0157	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0332	JQ	0.0309	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0346	JBQ	0.0147	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0469	J	0.0185	MDL	5.77	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-094-SA5B-SB-4.0-5.0 *Collected:* 1/11/2011 4:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.897	JBQ	0.0397	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.189	JB	0.0521	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-099-SA5B-SB-4.0-5.0 *Collected:* 1/11/2011 10:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.253	JB	0.0465	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.284	JBQ	0.0257	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0344	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0828	JB	0.0310	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0563	JBQ	0.0244	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0233	JQ	0.0228	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0541	JBQ	0.0234	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0737	JQ	0.0233	MDL	5.73	PQL	ng/Kg	J	Z
OCDD	1.35	JB	0.0450	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.266	JBQ	0.0719	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-100-SA5B-SB-4.0-5.0 *Collected:* 1/11/2011 9:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.06	JB	0.0568	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.382	JB	0.0203	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0597	JBQ	0.0261	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0561	JBQ	0.0288	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	J	0.0349	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0717	JBQ	0.0227	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0675	J	0.0337	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0342	JBQ	0.0252	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0295	JQ	0.0190	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0839	JBQ	0.0218	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0513	JQ	0.0185	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0367	JQ	0.0350	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0334	JQ	0.0329	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	6.10	JB	0.0276	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.316	JB	0.0559	MDL	11.0	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-119-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 8:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.214	JBQ	0.0410	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.126	JB	0.0125	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0376	JBQ	0.0186	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0347	JQ	0.0261	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0324	JBQ	0.0164	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0680	JQ	0.0273	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0460	JBQ	0.0186	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0519	JQ	0.0197	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0483	JB	0.0179	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0930	JQ	0.0186	MDL	5.63	PQL	ng/Kg	J	Z
OCDD	0.808	JB	0.0343	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.238	JBQ	0.0453	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-120-SA5B-SB-3.0-4.0 *Collected:* 1/13/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.295	JB	0.0420	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0150	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0263	JBQ	0.0212	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0421	JQ	0.0338	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0429	JBQ	0.0184	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0544	JQ	0.0366	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0319	JBQ	0.0161	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0957	JQ	0.0348	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0354	JB	0.0188	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0551	JQ	0.0442	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0322	JQ	0.0195	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0440	JB	0.0173	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0688	JQ	0.0200	MDL	5.49	PQL	ng/Kg	J	Z
OCDD	0.757	JB	0.0338	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JB	0.0532	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-121-SA5B-SB-4.0-5.0 *Collected:* 1/13/2011 10:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.218	JBQ	0.0304	MDL	5.41	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 Laboratory: LL

EDD Filename: DX038_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-121-SA5B-SB-4.0-5.0 **Collected:** 1/13/2011 10:22:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.106	JBQ	0.0111	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0261	JBQ	0.0162	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0285	JB	0.0137	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0269	JQ	0.0215	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0201	JBQ	0.0123	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.142	J	0.0211	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.133	JBQ	0.0137	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0357	JB	0.0125	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0329	JQ	0.0148	MDL	5.41	PQL	ng/Kg	J	Z
OCDD	1.12	JB	0.0325	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.131	JBQ	0.0402	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-121-SA5B-SB-9.0-10.0 **Collected:** 1/13/2011 10:27:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.369	JBQ	0.0639	MDL	6.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.124	JB	0.0195	MDL	6.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0386	JBQ	0.0270	MDL	6.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0730	JQ	0.0494	MDL	6.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0525	JB	0.0204	MDL	6.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0733	JQ	0.0473	MDL	6.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0390	JBQ	0.0239	MDL	6.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0708	JQ	0.0500	MDL	6.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0354	JBQ	0.0210	MDL	6.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0657	JQ	0.0270	MDL	6.49	PQL	ng/Kg	J	Z
OCDD	0.943	JB	0.0394	MDL	13.0	PQL	ng/Kg	U	B
OCDF	0.158	JB	0.0629	MDL	13.0	PQL	ng/Kg	U	B

Sample ID: SL-122-SA5B-SB-2.0-3.0 **Collected:** 1/13/2011 1:39:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.411	JBQ	0.0571	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.124	JB	0.0138	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0358	JB	0.0212	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0370	JBQ	0.0226	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.466	JQ	0.0468	MDL	5.79	PQL	ng/Kg	J	Z

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-122-SA5B-SB-2.0-3.0** ***Collected:*** **1/13/2011 1:39:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,6,7,8-HXCDF	0.121	JBQ	0.0196	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.560	JQ	0.0446	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.105	JB	0.0238	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0513	JQ	0.0388	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0221	JBQ	0.0202	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0554	JQ	0.0195	MDL	5.79	PQL	ng/Kg	J	Z
OCDD	4.24	JB	0.0490	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.418	JB	0.0530	MDL	11.6	PQL	ng/Kg	U	B

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

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
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation

Data Qualifier Summary

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX038

Method Blank Outlier Report

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB372156	2/2/2011 9:56:00 PM	1,2,3,4,6,7,8-HPCDD	1.97 pg/L	EB20-SA5B-011311
		1,2,3,4,6,7,8-HPCDF	3.23 pg/L	EB21-SA5B-011311
		1,2,3,4,7,8,9-HPCDF	0.279 pg/L	
		1,2,3,4,7,8-HxCDD	0.161 pg/L	
		1,2,3,4,7,8-HXCDF	0.784 pg/L	
		1,2,3,6,7,8-HXCDD	0.155 pg/L	
		1,2,3,6,7,8-HXCDF	0.463 pg/L	
		1,2,3,7,8,9-HXCDF	0.178 pg/L	
		1,2,3,7,8-PECDD	0.265 pg/L	
		1,2,3,7,8-PECDF	0.284 pg/L	
		2,3,4,6,7,8-HXCDF	0.865 pg/L	
		2,3,4,7,8-PECDF	0.530 pg/L	
		2,3,7,8-TCDF	0.291 pg/L	
		OCDD	4.75 pg/L	
		OCDF	2.06 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB20-SA5B-011311(RES)	1,2,3,4,6,7,8-HPCDD	2.25 pg/L	2.25U pg/L
EB20-SA5B-011311(RES)	1,2,3,4,6,7,8-HPCDF	3.35 pg/L	3.35U pg/L
EB20-SA5B-011311(RES)	1,2,3,4,7,8,9-HPCDF	0.385 pg/L	0.385U pg/L
EB20-SA5B-011311(RES)	1,2,3,4,7,8-HxCDD	0.167 pg/L	0.167U pg/L
EB20-SA5B-011311(RES)	1,2,3,4,7,8-HXCDF	0.640 pg/L	0.640U pg/L
EB20-SA5B-011311(RES)	1,2,3,6,7,8-HXCDD	0.509 pg/L	0.509U pg/L
EB20-SA5B-011311(RES)	1,2,3,6,7,8-HXCDF	0.378 pg/L	0.378U pg/L
EB20-SA5B-011311(RES)	1,2,3,7,8-PECDF	0.132 pg/L	0.132U pg/L
EB20-SA5B-011311(RES)	2,3,4,6,7,8-HXCDF	0.725 pg/L	0.725U pg/L
EB20-SA5B-011311(RES)	2,3,4,7,8-PECDF	0.481 pg/L	0.481U pg/L
EB20-SA5B-011311(RES)	OCDD	5.27 pg/L	5.27U pg/L
EB20-SA5B-011311(RES)	OCDF	2.41 pg/L	2.41U pg/L
EB21-SA5B-011311(RES)	1,2,3,4,6,7,8-HPCDD	1.75 pg/L	1.75U pg/L
EB21-SA5B-011311(RES)	1,2,3,4,6,7,8-HPCDF	3.69 pg/L	3.69U pg/L
EB21-SA5B-011311(RES)	1,2,3,4,7,8,9-HPCDF	0.282 pg/L	0.282U pg/L
EB21-SA5B-011311(RES)	1,2,3,4,7,8-HXCDF	0.477 pg/L	0.477U pg/L
EB21-SA5B-011311(RES)	1,2,3,6,7,8-HXCDF	0.581 pg/L	0.581U pg/L
EB21-SA5B-011311(RES)	1,2,3,7,8,9-HXCDF	0.313 pg/L	0.313U pg/L
EB21-SA5B-011311(RES)	1,2,3,7,8-PECDF	0.173 pg/L	0.173U pg/L
EB21-SA5B-011311(RES)	2,3,4,6,7,8-HXCDF	0.656 pg/L	0.656U pg/L
EB21-SA5B-011311(RES)	2,3,4,7,8-PECDF	0.660 pg/L	0.660U pg/L
EB21-SA5B-011311(RES)	OCDD	4.78 pg/L	4.78U pg/L
EB21-SA5B-011311(RES)	OCDF	2.42 pg/L	2.42U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLANKAB372247	2/1/2011 10:47:00 PM	1,2,3,4,6,7,8-HPCDD	0.231 ng/Kg	SED-009-SIV-SD-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.285 ng/Kg	SED-028-SIV-SD-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0343 ng/Kg	SL-085-SA5B-SB-3.0-4.0
		1,2,3,4,7,8-HXCDF	0.0920 ng/Kg	SL-086-SA5B-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0350 ng/Kg	SL-087-SA5B-SB-3.0-4.0
		1,2,3,7,8,9-HXCDF	0.0311 ng/Kg	SL-088-SA5B-SB-3.0-4.0
		2,3,4,6,7,8-HXCDF	0.0717 ng/Kg	SL-089-SA5B-SB-4.0-5.0
		OCDD	0.604 ng/Kg	SL-090-SA5B-SB-2.5-3.5
		OCDF	0.323 ng/Kg	SL-091-SA5B-SB-4.0-5.0
				SL-093-SA5B-SB-3.0-4.0
				SL-094-SA5B-SB-4.0-5.0
				SL-099-SA5B-SB-4.0-5.0
				SL-100-SA5B-SB-4.0-5.0
				SL-119-SA5B-SB-3.0-4.0
				SL-120-SA5B-SB-3.0-4.0
				SL-121-SA5B-SB-4.0-5.0
				SL-121-SA5B-SB-9.0-10.0
				SL-122-SA5B-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SED-009-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.156 ng/Kg	0.158U ng/Kg
SED-009-SIV-SD-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0676 ng/Kg	0.0676U ng/Kg
SED-009-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.275 ng/Kg	0.275U ng/Kg
SED-028-SIV-SD-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.663 ng/Kg	0.663U ng/Kg
SED-028-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0991 ng/Kg	0.0991U ng/Kg
SED-028-SIV-SD-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SED-028-SIV-SD-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0995 ng/Kg	0.0995U ng/Kg
SED-028-SIV-SD-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.299 ng/Kg	0.299U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.337 ng/Kg	0.337U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.127 ng/Kg	0.127U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0614 ng/Kg	0.0814U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0607 ng/Kg	0.0607U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	OCDD	1.00 ng/Kg	1.00U ng/Kg
SL-085-SA5B-SB-3.0-4.0(RES)	OCDF	0.383 ng/Kg	0.383U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.189 ng/Kg	0.189U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.319 ng/Kg	0.319U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0245 ng/Kg	0.0245U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0767 ng/Kg	0.0787U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	OCDD	0.706 ng/Kg	0.706U ng/Kg
SL-086-SA5B-SB-4.0-5.0(RES)	OCDF	0.288 ng/Kg	0.288U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.335 ng/Kg	0.335U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.383 ng/Kg	0.383U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0389 ng/Kg	0.0389U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-087-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0478 ng/Kg	0.0478U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0358 ng/Kg	0.0358U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0917 ng/Kg	0.0917U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	OCDD	1.10 ng/Kg	1.10U ng/Kg
SL-087-SA5B-SB-3.0-4.0(RES)	OCDF	0.332 ng/Kg	0.332U ng/Kg
SL-088-SA5B-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.347 ng/Kg	0.347U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.309 ng/Kg	0.309U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.319 ng/Kg	0.319U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0719 ng/Kg	0.0719U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0520 ng/Kg	0.0520U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0434 ng/Kg	0.0434U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0928 ng/Kg	0.0928U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	OCDD	1.40 ng/Kg	1.40U ng/Kg
SL-089-SA5B-SB-4.0-5.0(RES)	OCDF	0.349 ng/Kg	0.349U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.472 ng/Kg	0.472U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0474 ng/Kg	0.0474U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0690 ng/Kg	0.0690U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-090-SA5B-SB-2.5-3.5(RES)	OCDF	1.04 ng/Kg	1.04U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.288 ng/Kg	0.288U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.364 ng/Kg	0.364U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0822 ng/Kg	0.0822U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	1,2,3,8,7,8-HXCDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0444 ng/Kg	0.0444U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	OCDD	0.882 ng/Kg	0.882U ng/Kg
SL-091-SA5B-SB-4.0-5.0(RES)	OCDF	0.283 ng/Kg	0.283U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.174 ng/Kg	0.174U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	0.123U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0260 ng/Kg	0.0260U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0271 ng/Kg	0.0271U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-093-SA5B-SB-3.0-4.0(RES)	OCDD	0.774 ng/Kg	0.774U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-093-SA5B-SB-3.0-4.0(RES)	OCDF	0.110 ng/Kg	0.110U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.207 ng/Kg	0.207U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0255 ng/Kg	0.0255U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0228 ng/Kg	0.0228U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0346 ng/Kg	0.0346U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	OCDD	0.897 ng/Kg	0.897U ng/Kg
SL-094-SA5B-SB-4.0-5.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.253 ng/Kg	0.253U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.284 ng/Kg	0.284U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0828 ng/Kg	0.0828U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0583 ng/Kg	0.0563U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	OCDD	1.35 ng/Kg	1.35U ng/Kg
SL-099-SA5B-SB-4.0-5.0(RES)	OCDF	0.266 ng/Kg	0.266U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.08 ng/Kg	1.06U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.382 ng/Kg	0.382U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0717 ng/Kg	0.0717U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-100-SA5B-SB-4.0-5.0(RES)	OCDF	0.316 ng/Kg	0.316U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.214 ng/Kg	0.214U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0324 ng/Kg	0.0324U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	OCDD	0.808 ng/Kg	0.808U ng/Kg
SL-119-SA5B-SB-3.0-4.0(RES)	OCDF	0.238 ng/Kg	0.238U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.295 ng/Kg	0.295U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0354 ng/Kg	0.0354U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-120-SA5B-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0440 ng/Kg	0.0440U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	OCDD	0.757 ng/Kg	0.757U ng/Kg
SL-120-SA5B-SB-3.0-4.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.218 ng/Kg	0.218U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.106 ng/Kg	0.106U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0261 ng/Kg	0.0261U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0265 ng/Kg	0.0285U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	OCDD	1.12 ng/Kg	1.12U ng/Kg
SL-121-SA5B-SB-4.0-5.0(RES)	OCDF	0.131 ng/Kg	0.131U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.369 ng/Kg	0.369U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	1,2,3,4,6,7,6-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0390 ng/Kg	0.0390U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	OCDD	0.943 ng/Kg	0.943U ng/Kg
SL-121-SA5B-SB-9.0-10.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.411 ng/Kg	0.411U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0358 ng/Kg	0.0358U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	2,3,4,6,7,6-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-122-SA5B-SB-2.0-3.0(RES)	OCDF	0.418 ng/Kg	0.418U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5B-011311	1,2,3,4,6,7,8-HPCDD	JB	2.25	10.9	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	3.35	10.9	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.385	10.9	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.167	10.9	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.640	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.509	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.378	10.9	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDD	JQ	0.189	10.9	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.132	10.9	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.725	10.9	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.481	10.9	PQL	pg/L	
	OCDD	JB	5.27	21.7	PQL	pg/L	
	OCDF	JB	2.41	21.7	PQL	pg/L	
EB21-SA5B-011311	1,2,3,4,6,7,8-HPCDD	JBQ	1.75	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	3.69	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.282	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.477	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.581	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JQ	0.360	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.313	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.173	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.656	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.660	10.2	PQL	pg/L	
	OCDD	JB	4.78	20.3	PQL	pg/L	
	OCDF	JBQ	2.42	20.3	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-009-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.52	6.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.158	6.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.183	6.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.531	6.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.490	6.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.282	6.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.354	6.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0676	6.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.245	6.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.618	6.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.275	6.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.956	6.54	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.338	1.31	PQL	ng/Kg	
	OCDF	JB	2.84	13.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SED-028-SIV-SD-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.91	7.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.663	7.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0991	7.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.123	7.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.163	7.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.226	7.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0995	7.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	J	0.156	7.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.206	7.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.137	7.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.266	7.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0948	1.42	PQL	ng/Kg	
	OCDF	JB	1.72	14.2	PQL	ng/Kg	
SL-085-SA5B-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.299	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.337	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.127	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0421	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0511	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0814	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0533	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0607	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.125	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0604	5.42	PQL	ng/Kg	
	OCDD	JB	1.00	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.383	10.8	PQL	ng/Kg	
SL-086-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.189	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.319	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0381	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0638	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0427	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0263	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0245	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0420	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0787	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0742	5.61	PQL	ng/Kg	
	OCDD	JB	0.706	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.288	11.2	PQL	ng/Kg	
SL-087-SA5B-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.335	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.383	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0389	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0494	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0390	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0478	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0358	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0396	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0917	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0969	5.38	PQL	ng/Kg	
	OCDD	JB	1.10	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.332	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-088-SA5B-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	3.16	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.354	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.268	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.556	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.41	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.391	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	1.14	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.210	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.222	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.577	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.347	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.470	5.58	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0924	1.12	PQL	ng/Kg	
	OCDF	JB	6.13	11.2	PQL	ng/Kg	
SL-089-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.309	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.319	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0446	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0719	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0520	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0456	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0434	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0928	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0793	5.75	PQL	ng/Kg	
	OCDD	JB	1.40	11.5	PQL	ng/Kg	
	OCDF	JB	0.349	11.5	PQL	ng/Kg	
SL-090-SA5B-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	1.93	5.46	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.472	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0474	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0304	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0846	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.102	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0780	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0954	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0690	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0678	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.107	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0743	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0349	1.09	PQL	ng/Kg	
	OCDF	JB	1.04	10.9	PQL	ng/Kg	
SL-091-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.288	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.364	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0822	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0847	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0714	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0847	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0444	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.110	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0981	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.104	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.126	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0666	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0410	1.14	PQL	ng/Kg	
	OCDD	JB	0.882	11.4	PQL	ng/Kg	
	OCDF	JB	0.283	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5B-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.174	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.123	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0260	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0298	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0422	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0271	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0709	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0303	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0169	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0414	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0536	5.49	PQL	ng/Kg	
	OCDD	JB	0.774	11.0	PQL	ng/Kg	
	OCDF	JB	0.110	11.0	PQL	ng/Kg	
SL-094-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.207	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.112	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0255	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0411	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0197	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0340	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0228	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0332	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0346	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0469	5.77	PQL	ng/Kg	
	OCDD	JBQ	0.897	11.5	PQL	ng/Kg	
	OCDF	JB	0.189	11.5	PQL	ng/Kg	
SL-099-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.253	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.284	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0828	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0563	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0233	5.73	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JBQ	0.0541	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0737	5.73	PQL	ng/Kg	
	OCDD	JB	1.35	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.266	11.5	PQL	ng/Kg	
SL-100-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.06	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.382	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0597	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0561	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.103	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0717	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0675	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0342	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JQ	0.0295	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0839	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0513	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0367	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0334	1.10	PQL	ng/Kg	
	OCDD	JB	6.10	11.0	PQL	ng/Kg	
	OCDF	JB	0.316	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX038 **Laboratory: LL**

EDD Filename: DX038_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-119-SA5B-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.214	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.126	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0376	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0347	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0324	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0680	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0460	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0519	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0483	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0930	5.63	PQL	ng/Kg	
	OCDD	JB	0.808	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.238	11.3	PQL	ng/Kg	
SL-120-SA5B-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.295	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0263	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0421	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0429	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0544	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0319	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0957	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0354	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0551	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0322	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0440	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0688	5.49	PQL	ng/Kg	
	OCDD	JB	0.757	11.0	PQL	ng/Kg	
	OCDF	JB	0.201	11.0	PQL	ng/Kg	
SL-121-SA5B-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.218	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.106	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0261	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0285	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0269	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0201	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.142	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.133	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0357	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0329	5.41	PQL	ng/Kg	
	OCDD	JB	1.12	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.131	10.8	PQL	ng/Kg	
SL-121-SA5B-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.369	6.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.124	6.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0386	6.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0730	6.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0525	6.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0733	6.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0390	6.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0708	6.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0354	6.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0657	6.49	PQL	ng/Kg	
	OCDD	JB	0.943	13.0	PQL	ng/Kg	
	OCDF	JB	0.158	13.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX038 **Laboratory:** LL

EDD Filename: DX038_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-122-SA5B-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.411	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.124	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0358	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0370	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.466	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.121	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.560	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.105	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0513	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0221	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0554	5.79	PQL	ng/Kg	
	OCDD	JB	4.24	11.6	PQL	ng/Kg	
	OCDF	JB	0.418	11.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX087

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-053-SA5DN-SS-0.0-0.5	6296094	N	METHOD	1613B	III
23-May-2011	SL-052-SA5DN-SS-0.0-0.5	6296093	N	METHOD	1613B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5	6296089	N	METHOD	1613B	III
23-May-2011	SL-022-SA5DN-SS-0.0-0.5MS	6296090	MS	METHOD	1613B	III
23-May-2011	SL-084-SA5DN-SB-4.0-5.0	6296078	N	METHOD	1613B	III
23-May-2011	DUP05-SA5DN-QC-052311	6296095	FD	METHOD	1613B	III
23-May-2011	SL-023-SA5DN-SS-0.0-0.5	6296092	N	METHOD	1613B	III
23-May-2011	SL-089-SA5DN-SB-4.0-5.0	6296079	N	METHOD	1613B	III
23-May-2011	SL-019-SA5DN-SS-0.0-0.5	6296087	N	METHOD	1613B	III
23-May-2011	SL-021-SA5DN-SS-0.0-0.5	6296088	N	METHOD	1613B	III
23-May-2011	SL-016-SA5DN-SS-0.0-0.5	6296085	N	METHOD	1613B	III
23-May-2011	SL-015-SA5DN-SS-0.0-0.5	6296084	N	METHOD	1613B	III
23-May-2011	SL-017-SA5DN-SS-0.0-0.5	6296086	N	METHOD	1613B	III
23-May-2011	SL-081-SA5DN-SB-4.0-5.0	6296080	N	METHOD	1613B	III
23-May-2011	SL-081-SA5DN-SB-9.0-10.0	6296081	N	METHOD	1613B	III
23-May-2011	EB05-SA5DN-SS-052311	6296096	EB	METHOD	1613B	III
23-May-2011	SED-035-SIV-SD	6296097	N	METHOD	1613B	III
23-May-2011	SL-075-SA5DN-SB-4.0-5.0	6296082	N	METHOD	1613B	III
23-May-2011	SL-075-SA5DN-SB-9.0-10.0	6296083	N	METHOD	1613B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory:** LL

EDD Filename: PrepDX087_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB05-SA5DN-SS-052311 *Collected:* 5/23/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.16	JBQ	0.356	MDL	9.78	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	4.83	JBQ	0.267	MDL	9.78	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	3.65	JB	0.305	MDL	9.78	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	2.29	JB	0.285	MDL	9.78	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.93	JB	0.243	MDL	9.78	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	2.08	JB	0.299	MDL	9.78	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	1.16	JBQ	0.236	MDL	9.78	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	3.86	JBQ	0.301	MDL	9.78	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	1.79	JBQ	0.240	MDL	9.78	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.774	JB	0.377	MDL	9.78	PQL	pg/L	U	B
1,2,3,7,8-PECDF	1.55	JB	0.200	MDL	9.78	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	3.36	JB	0.214	MDL	9.78	PQL	pg/L	U	B
2,3,4,7,8-PECDF	2.21	JBQ	0.185	MDL	9.78	PQL	pg/L	U	B
2,3,7,8-TCDD	1.19	JQ	0.341	MDL	1.96	PQL	pg/L	J	Z
2,3,7,8-TCDF	1.14	JBQ	0.281	MDL	1.96	PQL	pg/L	U	B
OCDD	15.0	JB	0.433	MDL	19.6	PQL	pg/L	U	B
OCDF	6.45	JBQ	0.454	MDL	19.6	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.16	JB	0.0354	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.317	JBQ	0.0466	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.416	JB	0.0902	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.581	JB	0.0503	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.82	JB	0.0956	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.371	JB	0.0465	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.22	JBQ	0.0915	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.613	JBQ	0.0533	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.284	JBQ	0.0425	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.676	JB	0.0402	MDL	5.61	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 Laboratory: LL

EDD Filename: PrepDX087_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP05-SA5DN-QC-052311 *Collected:* 5/23/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.372	JB	0.0468	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.880	JB	0.0383	MDL	5.61	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0422	JQ	0.0212	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0788	U	0.0788	MDL	1.12	PQL	ng/Kg	UJ	FD

Sample ID: SED-035-SIV-SD *Collected:* 5/23/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.823	JBQ	0.0590	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.914	JB	0.0955	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.682	JB	0.0481	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.43	JB	0.0994	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.515	JB	0.0471	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.88	JB	0.0956	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.343	JB	0.0484	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.611	JB	0.0615	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.513	JB	0.0252	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.687	JB	0.0433	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.671	JB	0.0244	MDL	5.67	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.146	J	0.0236	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.06	JB	0.0973	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.39	JB	0.104	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.12	JB	0.101	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.723	JB	0.0904	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.38	JB	0.102	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.659	JB	0.0804	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.760	JBQ	0.0496	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.823	JBQ	0.0435	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.799	JB	0.0713	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.717	JB	0.0422	MDL	5.54	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-015-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,3,7,8-TCDD	0.109	J	0.0215	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.340	JB	0.0843	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	13100	EB	0.317	MDL	11.1	PQL	ng/Kg	J	*XI

Sample ID: SL-016-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.92	JB	0.0432	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.508	JB	0.0552	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.518	JB	0.0675	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.51	JB	0.0728	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.791	JB	0.0746	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.28	JB	0.0685	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.442	JB	0.0784	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JB	0.0519	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	4.39	JB	0.0886	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.465	JBQ	0.0713	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.18	JB	0.0823	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0564	JQ	0.0183	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.11	JB	0.0277	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.342	JB	0.0361	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.175	JB	0.0546	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.543	JB	0.0571	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.948	JB	0.0862	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.639	JB	0.0557	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.582	JB	0.0969	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.438	JBQ	0.0700	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.693	JB	0.0842	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.28	JB	0.0990	MDL	5.49	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0612	JQ	0.0199	MDL	1.10	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 Laboratory: LL

EDD Filename: PrepDX087_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-017-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
OCDF	4.42	JB	0.0381	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.60	JB	0.0290	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.180	JBQ	0.0370	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.182	JBQ	0.0543	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.779	JB	0.0443	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.896	JB	0.0565	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.134	JB	0.0412	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.693	JB	0.0555	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.474	JB	0.0473	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0278	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.342	JB	0.0280	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.169	JBQ	0.0399	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JB	0.0280	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0320	JQ	0.0173	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.141	JB	0.0524	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	4.52	JB	0.0404	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.56	JB	0.0871	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.45	JB	0.0837	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.612	JB	0.0487	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.297	JB	0.0477	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	3.84	JB	0.0866	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.348	JB	0.0581	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.266	JBQ	0.0348	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.660	JB	0.0329	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.449	JB	0.0497	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.241	JBQ	0.0311	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0317	JQ	0.0182	MDL	1.13	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 Laboratory: LL

EDD Filename: PrepDX087_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-021-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,3,7,8-TCDF	0.320	JB	0.108	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	9760	EB	0.177	MDL	11.3	PQL	ng/Kg	J	*XI

Sample ID: SL-022-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.13	JB	0.0284	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.419	JB	0.0358	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.625	JB	0.0703	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.673	JB	0.0416	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.99	JB	0.0739	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.398	JB	0.0403	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.42	JB	0.0695	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.598	JB	0.0454	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.285	JBQ	0.0365	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.673	JB	0.0349	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.420	JB	0.0398	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.641	JB	0.0343	MDL	5.65	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0446	JQ	0.0180	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.246	JB	0.0758	MDL	1.13	PQL	ng/Kg	J	Z, FD
OCDD	786	B	0.103	MDL	11.3	PQL	ng/Kg	J	Q, Q, Q

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.03	JB	0.0304	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.391	JB	0.0449	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.329	JB	0.0599	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.421	JB	0.0366	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.40	JB	0.0628	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.218	JB	0.0342	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.891	JB	0.0592	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.456	JB	0.0444	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.234	JBQ	0.0260	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.498	JB	0.0304	MDL	5.57	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-023-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 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
2,3,4,6,7,8-HXCDF	0.239	JB	0.0356	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.251	JB	0.0288	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0243	JQ	0.0169	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.57	JB	0.0439	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-052-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.773	JB	0.0267	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.129	JBQ	0.0355	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.153	JBQ	0.0449	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.366	JB	0.0297	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.481	JB	0.0474	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JBQ	0.0277	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.555	JB	0.0445	MDL	5.76	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.552	JB	0.0290	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.205	JBQ	0.0260	MDL	5.76	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.215	JB	0.0158	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.161	JB	0.0243	MDL	5.76	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.185	JBQ	0.0153	MDL	5.76	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.122	JB	0.0261	MDL	1.15	PQL	ng/Kg	U	B
OCDF	1.47	JB	0.0553	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.38	JB	0.0282	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.280	JB	0.0378	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.379	JB	0.0660	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.623	JB	0.0463	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.60	JB	0.0689	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.422	JB	0.0443	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.79	JB	0.0645	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.63	JB	0.0512	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.440	JB	0.0425	MDL	5.58	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 Laboratory: LL

EDD Filename: PrepDX087_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-053-SA5DN-SS-0.0-0.5 *Collected:* 5/23/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.870	JB	0.0363	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.322	JB	0.0424	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.613	JBQ	0.0342	MDL	5.58	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.130	JQ	0.0181	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.404	JB	0.0778	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	5.12	JB	0.0491	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-075-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.425	JBQ	0.0299	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.246	JBQ	0.0188	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0287	JB	0.0195	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0789	JB	0.0232	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0634	JBQ	0.0187	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0612	JB	0.0197	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0804	JBQ	0.0162	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0488	JB	0.0144	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0336	JBQ	0.0105	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0790	JB	0.0119	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0655	JBQ	0.00993	MDL	5.53	PQL	ng/Kg	U	B
OCDD	3.62	JB	0.0385	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.184	JB	0.0335	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.22	JBQ	0.0413	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.399	JB	0.0235	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0908	JBQ	0.0274	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.160	JB	0.0242	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.219	JB	0.0252	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.186	JBQ	0.0255	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.219	JB	0.0226	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.173	JBQ	0.0227	MDL	5.68	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-075-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.174	JBQ	0.0219	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.200	JB	0.0241	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.255	JBQ	0.0128	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.185	JBQ	0.0188	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.247	JBQ	0.0115	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0743	JQ	0.0207	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0745	JBQ	0.0183	MDL	1.14	PQL	ng/Kg	U	B
OCDF	0.545	JBQ	0.0399	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-081-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.678	JB	0.0383	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.211	JB	0.0143	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0778	JB	0.0180	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0225	JBQ	0.0209	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0476	JBQ	0.0161	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0756	JBQ	0.0219	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0376	JB	0.0154	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JBQ	0.0206	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.121	JB	0.0166	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0630	JBQ	0.0209	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0541	JBQ	0.0122	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0856	JB	0.0141	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0941	JB	0.0114	MDL	5.51	PQL	ng/Kg	U	B
OCDD	5.37	JB	0.0434	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.341	JBQ	0.0373	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.860	JB	0.0380	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.253	JB	0.0133	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0811	JBQ	0.0175	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0584	JBQ	0.0176	MDL	5.44	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 Laboratory: LL

EDD Filename: PrepDX087_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-081-SA5DN-SB-9.0-10.0 *Collected:* 5/23/2011 1:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0690	JB	0.0143	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0621	JBQ	0.0183	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0474	JBQ	0.0139	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0992	JB	0.0178	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0578	JBQ	0.0156	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0393	JBQ	0.0226	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0391	JBQ	0.0103	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JB	0.0137	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0836	JBQ	0.00973	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0346	JQ	0.0205	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	8.17	JB	0.0400	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.330	JB	0.0341	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-084-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.10	JB	0.0381	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.293	JBQ	0.0178	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0709	JBQ	0.0235	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0588	JB	0.0196	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0686	JBQ	0.0175	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JB	0.0198	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0586	JBQ	0.0163	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0783	JBQ	0.0191	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0885	JBQ	0.0152	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0421	JBQ	0.0200	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0433	JBQ	0.0101	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0973	JB	0.0131	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0847	JBQ	0.00940	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0287	JQ	0.0197	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.451	JB	0.0403	MDL	11.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX087 Laboratory: LL

EDD Filename: PrepDX087_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA5DN-SB-4.0-5.0 *Collected:* 5/23/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.786	JB	0.0366	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.221	JBQ	0.0132	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0785	JB	0.0171	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0244	JBQ	0.0187	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0739	JBQ	0.0154	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0757	JBQ	0.0197	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0602	JBQ	0.0144	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0955	JBQ	0.0178	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0669	JB	0.0168	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0221	JBQ	0.0207	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0481	JBQ	0.0121	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0685	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0880	JB	0.0111	MDL	5.48	PQL	ng/Kg	U	B
OCDF	0.330	JBQ	0.0343	MDL	11.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX087

Method Blank Outlier Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1470B371534	6/1/2011 3:34:00 PM	1,2,3,4,6,7,8-HPCDD	5.92 pg/L	EB05-SA5DN-SS-052311
		1,2,3,4,6,7,8-HPCDF	4.23 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.72 pg/L	
		1,2,3,4,7,8-HxCDD	1.05 pg/L	
		1,2,3,4,7,8-HXCDF	1.89 pg/L	
		1,2,3,6,7,8-HXCDD	1.65 pg/L	
		1,2,3,6,7,8-HXCDF	1.45 pg/L	
		1,2,3,7,8,9-HXCDD	1.92 pg/L	
		1,2,3,7,8,9-HXCDF	1.58 pg/L	
		1,2,3,7,8-PECDD	1.10 pg/L	
		1,2,3,7,8-PECDF	1.09 pg/L	
		2,3,4,6,7,8-HXCDF	1.60 pg/L	
		2,3,4,7,8-PECDF	1.91 pg/L	
		2,3,7,8-TCDF	0.454 pg/L	
		OCDD	18.2 pg/L	
		OCDF	6.41 pg/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB05-SA5DN-SS-052311(RES)	1,2,3,4,6,7,8-HPCDD	6.16 pg/L	6.16U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,4,6,7,8-HPCDF	4.83 pg/L	4.83U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,4,7,8,9-HPCDF	3.65 pg/L	3.65U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,4,7,8-HxCDD	2.29 pg/L	2.29U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,4,7,8-HXCDF	1.93 pg/L	1.93U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,6,7,8-HXCDD	2.08 pg/L	2.08U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,6,7,8-HXCDF	1.16 pg/L	1.16U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,7,8,9-HXCDD	3.86 pg/L	3.86U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,7,8,9-HXCDF	1.79 pg/L	1.79U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,7,8-PECDD	0.774 pg/L	0.774U pg/L
EB05-SA5DN-SS-052311(RES)	1,2,3,7,8-PECDF	1.55 pg/L	1.55U pg/L
EB05-SA5DN-SS-052311(RES)	2,3,4,6,7,8-HXCDF	3.36 pg/L	3.36U pg/L
EB05-SA5DN-SS-052311(RES)	2,3,4,7,8-PECDF	2.21 pg/L	2.21U pg/L
EB05-SA5DN-SS-052311(RES)	2,3,7,8-TCDF	1.14 pg/L	1.14U pg/L
EB05-SA5DN-SS-052311(RES)	OCDD	15.0 pg/L	15.0U pg/L
EB05-SA5DN-SS-052311(RES)	OCDF	6.45 pg/L	6.45U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1550B371348	6/7/2011 1:48:00 PM	1,2,3,4,6,7,8-HPCDD	0.294 ng/Kg	DUP05-SA5DN-QC-052311
		1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	SED-035-SIV-SD
		1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	SL-015-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0444 ng/Kg	SL-016-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0897 ng/Kg	SL-017-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0613 ng/Kg	SL-019-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0995 ng/Kg	SL-021-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.106 ng/Kg	SL-022-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.145 ng/Kg	SL-023-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0548 ng/Kg	SL-052-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0626 ng/Kg	SL-053-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0869 ng/Kg	SL-075-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0908 ng/Kg	SL-075-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0258 ng/Kg	SL-081-SA5DN-SB-4.0-5.0
		OCDD	0.764 ng/Kg	SL-081-SA5DN-SB-9.0-10.0
		OCDF	0.318 ng/Kg	SL-084-SA5DN-SB-4.0-5.0
				SL-089-SA5DN-SB-4.0-5.0
BLK1550B371632	6/9/2011 4:32:00 PM	2,3,7,8-TCDF	0.0331 ng/Kg	DUP05-SA5DN-QC-052311
				SED-035-SIV-SD
				SL-015-SA5DN-SS-0.0-0.5
				SL-016-SA5DN-SS-0.0-0.5
				SL-017-SA5DN-SS-0.0-0.5
				SL-019-SA5DN-SS-0.0-0.5
				SL-021-SA5DN-SS-0.0-0.5
				SL-022-SA5DN-SS-0.0-0.5
				SL-023-SA5DN-SS-0.0-0.5
				SL-052-SA5DN-SS-0.0-0.5
				SL-053-SA5DN-SS-0.0-0.5
				SL-075-SA5DN-SB-4.0-5.0
				SL-075-SA5DN-SB-9.0-10.0
				SL-081-SA5DN-SB-4.0-5.0
				SL-081-SA5DN-SB-9.0-10.0
				SL-084-SA5DN-SB-4.0-5.0
				SL-089-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
DUP05-SA5DN-QC-052311(RES)	1,2,3,4,7,8,9-HPCDF	0.317 ng/Kg	0.317U ng/Kg
DUP05-SA5DN-QC-052311(RES)	1,2,3,6,7,8-HXCDF	0.371 ng/Kg	0.371U ng/Kg
DUP05-SA5DN-QC-052311(RES)	1,2,3,7,8,9-HXCDF	0.613 ng/Kg	0.613U ng/Kg
DUP05-SA5DN-QC-052311(RES)	2,3,4,6,7,8-HXCDF	0.372 ng/Kg	0.372U ng/Kg
SED-035-SIV-SD(RES)	1,2,3,7,8,9-HXCDF	0.343 ng/Kg	0.343U ng/Kg
SL-015-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.659 ng/Kg	0.659U ng/Kg
SL-016-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.508 ng/Kg	0.508U ng/Kg
SL-016-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.442 ng/Kg	0.442U ng/Kg
SL-016-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.249 ng/Kg	0.249U ng/Kg
SL-017-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.342 ng/Kg	0.342U ng/Kg
SL-017-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.175 ng/Kg	0.175U ng/Kg
SL-017-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.582 ng/Kg	0.582U ng/Kg
SL-019-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.180 ng/Kg	0.180U ng/Kg
SL-019-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.182 ng/Kg	0.182U ng/Kg
SL-019-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-019-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.474 ng/Kg	0.474U ng/Kg
SL-019-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-019-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-019-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-021-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.297 ng/Kg	0.297U ng/Kg
SL-021-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.348 ng/Kg	0.348U ng/Kg
SL-021-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.266 ng/Kg	0.266U ng/Kg
SL-021-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-022-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.419 ng/Kg	0.419U ng/Kg
SL-022-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.398 ng/Kg	0.398U ng/Kg
SL-022-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.598 ng/Kg	0.598U ng/Kg
SL-022-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.420 ng/Kg	0.420U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.391 ng/Kg	0.391U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.421 ng/Kg	0.421U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.456 ng/Kg	0.456U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.234 ng/Kg	0.234U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
SL-023-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.251 ng/Kg	0.251U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.773 ng/Kg	0.773U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.153 ng/Kg	0.153U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.366 ng/Kg	0.366U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.148 ng/Kg	0.146U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.552 ng/Kg	0.552U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.205 ng/Kg	0.205U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.215 ng/Kg	0.215U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.122 ng/Kg	0.122U ng/Kg
SL-052-SA5DN-SS-0.0-0.5(RES)	OCDF	1.47 ng/Kg	1.47U ng/Kg
SL-053-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.280 ng/Kg	0.280U ng/Kg
SL-053-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.422 ng/Kg	0.422U ng/Kg
SL-053-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.322 ng/Kg	0.322U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.425 ng/Kg	0.425U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.246 ng/Kg	0.246U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0634 ng/Kg	0.0634U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0804 ng/Kg	0.0804U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0336 ng/Kg	0.0336U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-075-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0790 ng/Kg	0.0790U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	OCDD	3.62 ng/Kg	3.62U ng/Kg
SL-075-SA5DN-SB-4.0-5.0(RES)	OCDF	0.184 ng/Kg	0.184U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.22 ng/Kg	1.22U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.399 ng/Kg	0.399U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.160 ng/Kg	0.160U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.186 ng/Kg	0.186U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.173 ng/Kg	0.173U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.200 ng/Kg	0.200U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.255 ng/Kg	0.255U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.247 ng/Kg	0.247U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0745 ng/Kg	0.0745U ng/Kg
SL-075-SA5DN-SB-9.0-10.0(RES)	OCDF	0.545 ng/Kg	0.545U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.678 ng/Kg	0.678U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.211 ng/Kg	0.211U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0778 ng/Kg	0.0778U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0225 ng/Kg	0.0225U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0756 ng/Kg	0.0756U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.134 ng/Kg	0.134U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0630 ng/Kg	0.0630U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0856 ng/Kg	0.0856U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0941 ng/Kg	0.0941U ng/Kg
SL-081-SA5DN-SB-4.0-5.0(RES)	OCDF	0.341 ng/Kg	0.341U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.860 ng/Kg	0.860U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.253 ng/Kg	0.253U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0584 ng/Kg	0.0584U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0690 ng/Kg	0.0690U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0621 ng/Kg	0.0621U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0474 ng/Kg	0.0474U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: PrepDX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0992 ng/Kg	0.0992U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0391 ng/Kg	0.0391U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0836 ng/Kg	0.0836U ng/Kg
SL-081-SA5DN-SB-9.0-10.0(RES)	OCDF	0.330 ng/Kg	0.330U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.10 ng/Kg	1.10U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.293 ng/Kg	0.293U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0588 ng/Kg	0.0588U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0686 ng/Kg	0.0686U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0783 ng/Kg	0.0783U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0421 ng/Kg	0.0421U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0973 ng/Kg	0.0973U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-084-SA5DN-SB-4.0-5.0(RES)	OCDF	0.451 ng/Kg	0.451U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.786 ng/Kg	0.786U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.221 ng/Kg	0.221U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0785 ng/Kg	0.0785U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0739 ng/Kg	0.0739U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0757 ng/Kg	0.0757U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0955 ng/Kg	0.0955U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0669 ng/Kg	0.0669U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0221 ng/Kg	0.0221U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0685 ng/Kg	0.0685U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-089-SA5DN-SB-4.0-5.0(RES)	OCDF	0.330 ng/Kg	0.330U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-022-SA5DN-SS-0.0-0.5MS SL-022-SA5DN-SS-0.0-0.5MSD (SL-022-SA5DN-SS-0.0-0.5)	OCDD	1	162	40.00-135.00	37 (20.00)	OCDD	J (all detects) UJ (all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
MOISTURE	12.9	13.1	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-022-SA5DN-SS-0.0-0.5	DUP05-SA5DN-QC-052311			
1,2,3,4,6,7,8-HPCDD	81.1	73.8	9	50.00	
1,2,3,4,6,7,8-HPCDF	5.13	4.16	21	50.00	
1,2,3,4,7,8,9-HPCDF	0.419	0.317	28	50.00	
1,2,3,4,7,8-HxCDD	0.625	0.416	40	50.00	
1,2,3,4,7,8-HXCDF	0.673	0.581	15	50.00	
1,2,3,6,7,8-HXCDD	1.99	1.82	9	50.00	
1,2,3,6,7,8-HXCDF	0.398	0.371	7	50.00	
1,2,3,7,8,9-HXCDD	1.42	1.22	15	50.00	
1,2,3,7,8,9-HXCDF	0.598	0.613	2	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.285	0.284	0	50.00	
1,2,3,7,8-PECDF	0.673	0.676	0	50.00	
2,3,4,6,7,8-HXCDF	0.420	0.372	12	50.00	
2,3,4,7,8-PECDF	0.641	0.880	31	50.00	
2,3,7,8-TCDD	0.0446	0.0422	6	50.00	
OCDD	786	782	1	50.00	
OCDF	15.0	13.0	14	50.00	
2,3,7,8-TCDF	0.246	1.12 U	200	50.00	J(all detects) UJ(all non-detects)

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

Reporting Limit Outliers

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB05-SA5DN-SS-052311	1,2,3,4,6,7,8-HPCDD	JBQ	6.16	9.78	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	4.83	9.78	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	3.65	9.78	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	2.29	9.78	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	1.93	9.78	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	2.08	9.78	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	1.16	9.78	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	3.86	9.78	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	1.79	9.78	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JB	0.774	9.78	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	1.55	9.78	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	3.36	9.78	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	2.21	9.78	PQL	pg/L	
	2,3,7,8-TCDD	JQ	1.19	1.96	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	1.14	1.96	PQL	pg/L	
	OCDD	JB	15.0	19.6	PQL	pg/L	
	OCDF	JBQ	6.45	19.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA5DN-QC-052311	1,2,3,4,6,7,8-HPCDF	JB	4.16	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.317	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.416	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.581	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.82	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.371	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	1.22	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.613	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.284	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.676	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.372	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.880	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0422	1.12	PQL	ng/Kg	
SED-035-SIV-SD	1,2,3,4,7,8,9-HPCDF	JBQ	0.823	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.914	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.682	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.43	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.515	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.88	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.343	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.611	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.513	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.687	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.671	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.146	1.13	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.06	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.39	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.12	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.723	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.38	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.659	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.760	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.823	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.799	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.717	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.109	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.340	1.11	PQL	ng/Kg	
SL-016-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.92	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.508	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.518	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.51	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.791	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.28	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.442	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.249	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.39	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.465	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.18	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0564	1.08	PQL	ng/Kg	
SL-017-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.11	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.342	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.175	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.543	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.948	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.639	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.582	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.438	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.693	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.28	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0612	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.964	1.10	PQL	ng/Kg	
	OCDF	JB	4.42	11.0	PQL	ng/Kg	
SL-019-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.60	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.180	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.182	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.779	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.896	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.134	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.693	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.474	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.118	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.342	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.169	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.224	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0320	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.141	1.14	PQL	ng/Kg	
	OCDF	JB	4.52	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.56	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.45	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.612	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.297	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.84	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.348	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.266	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.660	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.449	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0317	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.320	1.13	PQL	ng/Kg	
SL-022-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.13	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.419	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.625	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.673	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.99	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.398	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.42	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.598	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.285	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.673	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.420	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.641	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0446	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.246	1.13	PQL	ng/Kg	
SL-023-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.03	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.391	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.329	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.421	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.40	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.218	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.891	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.456	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.234	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.498	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.239	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.251	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0243	1.11	PQL	ng/Kg	
	OCDF	JB	8.57	11.1	PQL	ng/Kg	
SL-052-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.773	5.76	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.129	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.153	5.76	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.366	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.481	5.76	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.146	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.555	5.76	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.552	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.205	5.76	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.215	5.76	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.161	5.76	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.185	5.76	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.122	1.15	PQL	ng/Kg	
	OCDF	JB	1.47	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.38	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.280	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.379	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.623	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.60	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.422	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.79	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.63	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.440	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.870	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.322	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.613	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.130	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.404	1.12	PQL	ng/Kg	
	OCDF	JB	5.12	11.2	PQL	ng/Kg	
SL-075-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.425	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.246	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0287	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0789	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0634	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0612	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0804	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0488	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0336	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0790	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0655	5.53	PQL	ng/Kg	
	OCDD	JB	3.62	11.1	PQL	ng/Kg	
	OCDF	JB	0.184	11.1	PQL	ng/Kg	
SL-075-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	1.22	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.399	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0908	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.160	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.219	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.186	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.219	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.173	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.174	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.200	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.255	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.185	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.247	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0743	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0745	1.14	PQL	ng/Kg	
	OCDF	JBQ	0.545	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-081-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.678	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.211	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0778	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0225	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0476	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0756	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0376	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.134	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.121	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0630	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0541	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0856	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0941	5.51	PQL	ng/Kg	
	OCDD	JB	5.37	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.341	11.0	PQL	ng/Kg	
SL-081-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.860	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.253	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0811	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0584	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0690	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0621	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0474	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0992	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0578	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0393	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0391	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0702	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0836	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0346	1.09	PQL	ng/Kg	
	OCDD	JB	8.17	10.9	PQL	ng/Kg	
	OCDF	JB	0.330	10.9	PQL	ng/Kg	
SL-084-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.10	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.293	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0709	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0588	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0686	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.102	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0586	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0783	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0885	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0421	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0433	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0973	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0847	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0287	1.10	PQL	ng/Kg	
	OCDF	JB	0.451	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX087 **Laboratory: LL**

EDD Filename: DX087_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.786	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.221	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0785	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0244	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0739	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0757	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0602	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0955	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0669	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0221	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0481	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0685	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0880	5.48	PQL	ng/Kg	
	OCDF	JBQ	0.330	11.0	PQL	ng/Kg	

LDC #: 25984B21

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: CA
2nd Reviewer: LA

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Compound	Finding	Associated Samples	Qualifications
		OCDD	> calibration range	SL-015-SASDN-55-0.0-0.5	J detects / P
		↓	↓	↓-021-↓-↓-↓	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 25984B21

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Reviewer:
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SED-035-SW-SD	2,3,7,8-TCDF result	-	R / A
		SL-017-SASDN-SS-0.0-0.5	from column SP2331	-	↓

Comments:

SAMPLE DELIVERY GROUP

1105316

Santa Susana
Data Validation Report

Sample Delivery Group (SDG) Number: 1105316
Laboratory: Frontier Global Sciences

Matrix: Soil, Water
Collection date: 05-23-11
Analysis/Methods:

Methyl Mercury
% Solids

Samples in SDG:

1105316-001	SED-035-SIV-SDMS
1105316-002	DUP03-SIV-QC-05311
1105316-003	FB08-SIV-052311

Validation was performed in accordance with the EPA National Functional Guidelines (EPA 2004) methods EPA 1630, Modified EPA 1630, and percent solids.

Methyl Mercury

Precision:

	Yes	No	N/A
Were the Field Duplicate relative percent differences (RPD).	Yes		
Were the Matrix Spike Duplicate/Triplicate RPDs acceptable?	Yes		
Were the Matrix Spike/Matrix Spike Duplicate RPD's acceptable?	Yes		
Laboratory Control Spike Duplicates RPD?	Yes		

Comments (note deviations):

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? 65-130	Yes		
Laboratory Control Sample criteria met? 70-130	Yes		
Were the Laboratory Method Blank results all < LOQ?		No	
Were the Field Blanks results all < LOQ?	Yes		
Was the ICAL criteria met - 80-120?	Yes		
Was the CCAL criteria met - 75-125?	Yes		

Comments (note deviations):

Field Duplicates		%RPD	Qualifiers	Associated Samples
	Methyl Mercury	Acceptable - absolute difference criteria		

Blanks		Concentration	MRL		Qualifiers	Associated Samples
Prep blanks						
Soil/Sediment						
EPA 1630 Mod	F105376-Blk 1	0.001 ug/Kg	0.05 ug/Kg		None	Blk results are < MRL.
	F105376-Blk 1	0.003 ug/Kg	0.05 ug/Kg		None	Blk results are < MRL.
	F105376-Blk 1	0.004 ug/Kg	0.05 ug/Kg		None	Blk results are < MRL.
		Sample results are greater than the MRL.				
EPA 1630 Mod	ICB	0.003 ng/L	0.101 ng/L		None	Blk results are < MRL.
	CCB1	-0.0008 ng/L	0.101 ng/L	U non-detect*	None	Blk is > - MRL.
	CCB2	0.0006 ngL	0.101 ng/L		None	Blk results are < MRL.
	CCB3	-0.002 ng/L	0.101 ng/L	U non-detect	None	Blk results are < MRL.
	CCB4	-0.0008 ng/L	0.101 ng/L	U non-detect*	None	Blk is > - MRL.

Water						
EPA 1630	F105371-Blk1	-0.002 ng/L	0.050 ng/L	U non-detect*	None	Blk is > - MRL.
	F105371-Blk2	-0.004 ng/L	0.050 ng/L	U non-detect	None	Blk results are < MRL.
	F105371-Blk3	-0.006 ng/L	0.050 ng/L	U non-detect*	None	Blk is > - MRL.
EPA 1630	ICB 1	-0.0004 ng/L	0.045 ng/L	U non-detect	None	Blk results are < MRL.
	CCB1	0.0004 ng/L	0.045 ng/L		None	Blk results are < MRL.
	CCB2	-0.0004 ngL	0.045 ng/L	U non-detect*	None	Blk is > - MRL.
	CCB3	0.0004 ng/L	0.045 ng/L		None	Blk results are < MRL.

Sample results for SED-035-SIV-SDMS and DUP03-SIV-QC-052311 were both greater than the blank and MRL results for all blanks. No qualification was necessary.

Field Blank

	Analyte
FB08-SIV-052311	non-detect

Matrix Duplicate/Triplicates	**RPD**	**Limits**	**Qualifiers**	**Associated Samples**
F105371-Dup1				
Methyl Mercury	41%	25	None sample is Non-detect	FB08-SIV-052311
Prep: Methyl Mercury Distillation for Water EPA 1630				
F105376-Dup1				
Methyl Mercury	18%	25	None acceptable	
Prep: Methylene Chloride extraction for Methyl Mercury EPA 1630 Modified				
F105379-Dup1				
%Solids	1.2%	10	None acceptable	
Prep: Solids Analysis Method S2540B				
F105379-Dup2				
%Solids	5.1%	10	None acceptable	
Prep: Solids Analysis Method S2540B				

Matrix Spike/Spike Duplicate

	%R	**Limit**	**RPD**
F105371-MS/MSD1	Acceptable	65-30%	Acceptable
Prep: Methyl Mercury Distillation for water. EPA 1630.			
F105376-MS/MSD1	Acceptable	65-130%	Acceptable
Prep: Methylene Chloride extraction for methyl mercury. Modified EPA 1630.			
F105376-MS/MSD2	Acceptable	65-130%	Acceptable
Prep: Methylene Chloride extraction for methyl mercury. Modified EPA 1630.			
F105376-MS/MSD3	Acceptable	65-130%	Acceptable
Prep: Methylene Chloride extraction for methyl mercury. Modified EPA 1630.			

LCS/LCSD

	%R	**RPD**
F105371-BS/BSD1	Acceptable	Acceptable
Methyl Mercury (Water)		
F105376-BS/BSD1	**%R**	**RPD**
Methyl Mercury	Acceptable	Acceptable

ICAL

80-120
Acceptable

CCV 75-125
Acceptable

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (4° ± 2° C)		No	
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations):

The sample coolers were received at 0.7°C. Based on professional judgement no action is required for the low temperature.

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Is a verification report present for method detection limits, interelement correction factors and linear ranges?	Yes		
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Data Validator: Carrie Madrid Date: 2011-07-12

Data Reviewer: Cherie Zakowski Date: 2011-07-13

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Methyl Mercury Analytical Results

Matrix: Soil/Sediment **Preparation:** Methylene Chloride Extraction for Methyl Hg

Sample Name	Result	MRL	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
SED-035-SIV-SDMS	**0.452**	0.133	µg/kg dry	1.05	F105376	05/30/11	1F01010	06/01/11	PA 1630 Mc	
DUP03-SIV-QC-052311	**0.275**	0.091	µg/kg dry	0.95	F105376	05/30/11	1F01010	06/01/11	PA 1630 Mc	

Matrix: Water **Preparation:** Methyl Hg Distillation for Water

Sample Name	Result	MRL	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
FB08-SIV-052311	ND	0.050	ng/L	1.25	F105371	05/30/11	1F01012	06/01/11	EPA 1630	U

CMM 7/12/11

Frontier Global Sciences, Inc.

Cindy Fields

Cindy Fields, Project Manager

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% Solids Analytical Results

Matrix: Soil/Sediment **Preparation:** Solids Analysis

Sample Name	Result	MRL	Units	Dilution	Batch	Prepared	Sequence	Analyzed	Method	Notes
SED-035-SIV-SDMS	**44.2**	0.1	% by Weight	1	F105379	05/30/11		05/31/11	SM 2540B	O-09
DUP03-SIV-QC-052311	**58.2**	0.1	% by Weight	1	F105379	05/30/11		05/31/11	SM 2540B	O-09

CMM 7/12/11

Frontier Global Sciences, Inc.

Cindy Fields

Cindy Fields, Project Manager

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SAMPLE DELIVERY GROUP

5311

Santa Susana
Data Validation Report

Sample Delivery Group (SDG) Number:	5311
Laboratory:	Test America
Matrix:	Soil, Water
Collection date:	05-23-11
Analysis/Methods:	
	Oganotins
	% Solids

Samples in SDG:

200-5311-1	SED-035-SIV-SDMS
200-5311-2	DUP03-SIV-QC-052311
200-5311-3	FB08-SIV-052311

Validation was performed in accordance with the USEPA CLP National Functional Guidelines for Superfund Organic Methods Data Review June 2008 and Method TestAmerica SOP Organotins/GC SW846 3550B.

Oraganotins/GC

Precision:	Yes	No	N/A
Were the Field Duplicate relative percent differences (RPD).			N/A
Were the Matrix Spike Duplicate/Triplicate RPDs acceptable?			N/A
Were the Matrix Spike/Matrix Spike Duplicate RPD's acceptable?			No
Laboratory Control Spike Duplicates RPD?			N/A

Comments (note deviations):

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met?			No
Laboratory Control Sample criteria met? 70-130			No
Were the Laboratory Method Blank results all < LOQ?			Yes
Were the Field Blanks results all < LOQ?			Yes
Was the ICAL criteria met - 20%?			Yes
Was the CCAL criteria met - 25%?			Yes
Internal Standard			Yes
Were surrogates recoveries within control limits?			Yes
Form X Column Agreement RPD < 40%?			Yes

Comments (note deviations):

Blanks		Concentration	MRL	Qualifiers	Associated Samples
Prep blanks					
Water	MB-200-18670/1-A	non-detect			
Soil/Sediment	MB-200-18679/1-A	non-detect			

Field Blank					
	FB08-SIV-052311	non-detect			

Matrix Spike/Spike Duplicate					
	SED-035-SIV-SDMS MS/MSD	%R	Limit	RPD(30)	Qualifiers	Associated Samples
	Monobutyltin	0% / 0%	10-48%	NC	J/UJ	SED-035-SIV-SDMS and DUP03-SIV-QC-052311

Duplicate		RPD(30)
	SED-035-SIV-SDMS	Acceptable

LCS/LCSD		%R	Limit	RPD	Qualifiers	Associated Samples
Water	200-18670/2-A					
	Monobutyltin	6%	10-48%	N/A	UJ	FB03-SIV-052311
		%R	Limit	RPD	Qualifiers	Associated Samples
Soil/Sediment	200-18879/1-A	Acceptable				

ICAL	20%	Qualifiers	Associated Samples
	Acceptable		

CCV	25%	Qualifiers	Associated Samples
	Acceptable		

Internal Standard	Tripentyltin	Recoveries
	2011-06-01	Acceptable
	2011-06-02	Acceptable

Form X	Identification Summary	
		RPD (40)
	Column agreement	Acceptable

Representativeness:

	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (4° ± 2° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations):

The sample cooler was received at 2.0°C.

Comparability:

	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):

	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

The case narrative states that monobutyltin is known to have a poor extraction efficiency and the laboratory considers all results for this compound to be qualitative. All results both detect and non-detect are reported with a "J" flag to indicate that they are estimates.

Sensitivity:

	Yes	No	N/A
Is a verification report present for method detection limits, interelement correction factors and linear ranges?	Yes		
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		
Are results above the linear range of the instrument?	Yes		

Comments (note deviations):

Data Validator: Carrie Madrid Date: 2011-08-24

Data Reviewer: Cherie Zakowski Date: 2011-08-25

Client: Lancaster Laboratories

Job Number: 200-5311-1
Sdg Number: 5311

Client Sample ID: **SED-035-SIV-SDMS**

Lab Sample ID: 200-5311-1
Client Matrix: Solid

% Moisture: 48.1

Date Sampled: 05/23/2011 1500
Date Received: 05/25/2011 1015

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-19104	Instrument ID:	2860.i
Prep Method:	3550B	Prep Batch:	200-18879	Initial Weight/Volume:	30.26 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	06/02/2011 1515			Injection Volume:	1.5 uL
Prep Date:	06/01/2011 1738			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Tetrabutyltin		3.2	U	0.84	3.2
Tributyltin		2.9	U	1.3	2.9
Dibutyltin		2.5	U	0.76	2.5
Monobutyltin		9.5 UJ	U J	9.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	91		30 - 120

CMM 8/24/11

Client: Lancaster Laboratories

Job Number: 200-5311-1
Sdg Number: 5311

Client Sample ID: DUP03-SIV-QC-052311

Lab Sample ID: 200-5311-2
Client Matrix: Solid % Moisture: 45.9

Date Sampled: 05/23/2011 1510
Date Received: 05/25/2011 1015

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-19104	Instrument ID:	2860.i
Prep Method:	3550B	Prep Batch:	200-18879	Initial Weight/Volume:	30.78 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	06/02/2011 1549			Injection Volume:	1.5 uL
Prep Date:	06/01/2011 1738			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Tetrabutyltin		3.1	U	0.79	3.1
Tributyltin		2.7	U	1.2	2.7
Dibutyltin		2.3	U	0.72	2.3
Monobutyltin		9.0 U J	U J	9.0	9.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	90		30 - 120

CMM 8/24/11

Client: Lancaster Laboratories

Job Number: 200-5311-1
Sdg Number: 5311

Client Sample ID: **FB08-SIV-052311**

Lab Sample ID: 200-5311-3
Client Matrix: Water

Date Sampled: 05/23/2011 1600
Date Received: 05/25/2011 1015

Organotins/GC Organotins (GC/FPD)

Analysis Method:	Organotins/GC	Analysis Batch:	200-19104	Instrument ID:	2860.i
Prep Method:	3510C	Prep Batch:	200-18670	Initial Weight/Volume:	1040 mL
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	06/02/2011 1713			Injection Volume:	1.5 uL
Prep Date:	05/26/2011 2040			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Tetrabutyltin	0.048	U	0.012	0.048
Tributyltin	0.043	U	0.012	0.043
Dibutyltin	0.038	U	0.0081	0.038
Monobutyltin	0.48 (J	U J *	0.48	0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
Tripentyltin	88		15 - 150

cmm 8/24/11

Client: Lancaster Laboratories

Job Number: 200-5311-1
Sdg Number: 5311

General Chemistry

Client Sample ID: **SED-035-SIV-SDMS**

Lab Sample ID: 200-5311-1
Client Matrix: Solid

Date Sampled: 05/23/2011 1500
Date Received: 05/25/2011 1015

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	51.9		%	0.25	0.25	1.0	Moisture

Analysis Batch: 200-18581 Analysis Date: 05/25/2011 1402 DryWt Corrected: N

CMM 8/24/11

Client: Lancaster Laboratories

Job Number: 200-5311-1
Sdg Number: 5311

General Chemistry

Client Sample ID: **DUP03-SW-QC-052311**

Lab Sample ID: 200-5311-2
Client Matrix: Solid

Date Sampled: 05/23/2011 1510
Date Received: 05/25/2011 1015

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Percent Solids	54.1		%	0.25	0.25	1.0	Moisture

Analysis Batch: 200-18581 Analysis Date: 05/25/2011 1402 DryWt Corrected: N

cmm
8/24/11