Appendix C
Data Usability Assessment Report
(On CD)

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Data Usability Assessment Report

The purposes of this data usability and assessment report (DUAR) are to 1) summarize the data validation performed on the data sets for the Historic Site Assessment (HSA) Subarea 3 and Subarea 6 samples collected, and 2) determine whether the sample results meet the Data Quality Objectives (DQOs) outlined in the *Master Work Plan/Field Sampling and Anlaysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California (CDM Federal Programs Corporation* [CDM] 2011a) (WP/FSAP) and *Addendum No. 5 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, EPA Subarea 6 Soil Sampling* (CDM 2011b) (WP/FSAP Addendum) and *Addendum No. 6 to Master Work Plan/Field Sampling and Analysis Plan, Co-Located Chemical Sampling at Area IV Santa Susana Field Laboratory, Ventura County, California, EPA Subareas 3, 5D South, 7 and 8 South Soil Sampling* (CDM 2011c).

C.1 Usability Summary

For this data usability assessment, 91 data sets were reviewed. A data set consists of 20 or fewer samples grouped together by analytical method 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 Subarea 3 and 6 Technical Memorandum (TM).

Samples were collected and analyzed in accordance with the WP/FSAP (CDM 2011a). Deviations were encountered during the field investigation for the Subarea 3 and 6 sampling activities and are discussed in detail in Section 2.8 of the Subarea 3 and 6 TM.

The validated data for Subareas 3 and 6 samples are usable as reported, with the exception of the rejected data. Two dinoseb results, one 2,4 dinitrophenol and one benzoic acid result were rejected for Subarea 3. For all Subarea 3 data, 0.19 percent of the results were rejected. For Subarea 6 data two fluoride results, 20 antimony results, one ethanol result, 10 m-terphenyl, 10 o-terphenyl, and 11 p-terphenyl results, two EFH (C12-C14) and three EFH (CC8-C11) results, 81 pesticide results, 10 PCB/PCT results, 109 herbicide results, and 39 SVOC results and eight SVOC SIM results were rejected. For all Subarea 6 data, 0.47 percent of the results were rejected. These rejected data do not impact project objectives and goals. Specific details are provided in the validation reports in this Appendix and below in Section C.8.

C.2 Data Validation Procedures

Data were validated by the independent data validation firm Laboratory Data Consultants, Inc. All data validation was conducted in accordance with *U.S. Environmental Protection Agency (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 SDGs that include Subarea 3 and 6 samples respectively and which SDGs were validated as Level III or Level IV. Some SDGs contain samples from other subareas but all samples in an SDG were validated together.

In order to evaluate the quality of the laboratory and the validation firm, CDM Smith chemists reviewed 10 percent of the Subarea 3 and 6 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 Smith's review.

C.3 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 evaluating and measuring data quality.

A review of the collected data is necessary to determine if data quality objectives established in the WP/FSAP (CDM 2011a and 2011b) have been met. The following data measurement tasks were evaluated:

- 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 determines if the collected data are of sufficient quality (except for the rejected results) to support their intended use.

C.4 Summary of Field and Laboratory QA Activities

CDM completed sampling activities in Subareas 3 and 6 in accordance with the approved WP/FSAP (CDM 2011a). A total of 13 soil samples were collected and analyzed from two surface locations and eight soil boring locations in Subarea 3. For Subarea 6, 374 soil samples were collected and analyzed from 18 drainage locations, 128 surface locations, and 162 soil boring locations. Tables 2-1 and 2-2 in the Subarea 3 and 6 TM provide 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 HSA Subarea 3 and 6 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 WP/FSAP (CDM 2011a) defined the procedures to be followed and the data quality requirements for the field sampling events.

C.5 Field Quality QA/QC

Field QC samples, such as matrix spike/matrix spike duplicates (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. MS/MSD and field duplicate samples were collected by CDM at one sample location for Subarea 3 and 20 sample locations for Subarea 6. MS/MSD and field duplicate samples met the frequency requirements detailed in the WP/FSAP (CDM 2011a).

Section 2.4.2 in the Subarea 3 and 6 TM identifies the equipment blanks collected. The equipment rinsate blank results are presented in Tables C-2 and C-3.

No field blanks were collected during sampling in Subareas 3 and 6. Samples from Subareas 3 and 6 have been associated with the appropriate field blanks previously collected.

Five trip blank samples were shipped with the Subarea 3 samples and 45 trip blanks were shipped with the Subarea 6 samples. The results for these samples are presented in Tables C-4 and C-5. Data qualifications based on blank detections are discussed in Section C.7.3 and in the Appendix C validation reports. Temperature blanks were to be included with each shipment of samples. Based on validation results, all temperature blanks for Subareas 3 and 6 met criteria.

The number of field QC samples collected satisfies the minimum requirements for the Subareas 3 and 6 sampling programs. Further, field QA/QC objectives were attained through the use of appropriate sampling techniques and collection of the required number and frequency of QC samples.

C.6 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 this appendix with the appropriate qualifiers applied. Two dinoseb results, one 2,4 dinitrophenol and one benzoic acid result were rejected for Subarea 3. For all Subarea 3 data, 0.19 percent of the results were rejected. For Subarea 6 data two fluoride results, 20 antimony results, one ethanol result, 10 m-terphenyl, 10 o-terphenyl, and 11 p-terphenyl results, two EFH (C12-C14) and three EFH (CC8-C11) results, 81 pesticide results, 10 PCB/PCT results, 109 herbicide results, and 39 SVOC results and eight SVOC SIM results were rejected. For all Subarea 6 data, 0.47 percent of the results were rejected as discussed below and in the validation reports presented in this appendix.

C.7 Data Quality Indicators

This section summarizes the validation performed. 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 WP/FSAP (CDM 2011a). 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:

$$\text{RPD} = \text{absolute value } [(C1-C2)/\{(C1+C2)/2)\}] \times 100\%$$

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 duplicate RPD control limits are presented in the WP/FSAP (CDM 2011a) or are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than two times the RL, a control limit of the absolute difference equal to the RL value was used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were validated using the following: If one result is non-detect and the other result is above the RL, 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 criterion (and both sample results were above the RL), the field duplicate and parent sample results for that analyte were qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field duplicate precision results. Details are discussed in the laboratory validation reports in this appendix. Tables C-6 and C-7 show the field duplicate pairs and RPD results for Subareas 3 and 6. RPD results outside of criteria are highlighted.

The following individual analyte results were qualified as estimated "J/UJ" based on precision criteria for Subarea 3 samples:

- Twenty-one metal analyte results were qualified as estimated based on laboratory precision criteria
- Nine dioxin results; two metal results; one alcohol/terphenyl result; one PCB/PCT results and one SVOC SIM result was qualified based on field duplicate criteria

The following individual analyte results were qualified as estimated "J/UJ" based on precision criteria for Subarea 6 samples:

- Forty-eight dioxin results, 26 pesticide results, five PCB/PCT results and 20 herbicide results were qualified as estimated based on second column RPD results
- Seventeen fluoride/nitrate results; 2,650 metal analyte results, 18 mercury results, and 51 PCB/PCT results were qualified as estimated based on laboratory precision criteria
- One hundred and twenty-two dioxin results; one fluoride/nitrate result, 58 metal results; seven hexavalent chromium results; seven mercury results; two alcohol/terphenyl result; 22 TPH/glycol results; 17 pesticide results; 33 PCB/PCT results; seven herbicide results; two VOC results; 12 SVOC results; 85 SVOC SIM results and one formaldehyde result was qualified based on field duplicate criteria

There is no discernable pattern or reason for the laboratory and field sample RPD exceedances identified. 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. Sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions with a degree of caution.

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:

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

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.

The following individual analyte results were qualified as nondetect “U” or nondetect estimated “UJ" based on accuracy criteria for Subarea 3 samples:

- Sixty-seven metal analyte results were qualified as estimated based on inductively coupled plasma serial dilution results

- Twelve PCB/PCT result; two herbicide results; and four SVOC results were qualified as estimated based on LCS percent recovery criteria

- Five fluoride/nitrate results; 94 metal analyte results; six TPH/glycol results; four SVOC SIM results and 11 energetic results were qualified as estimated based on MS percent recovery criteria

- Three pesticide results were qualified as estimated based on surrogate recovery criteria

The following individual analyte results were rejected "R" based on accuracy criteria for the Subarea 3 samples:

- Two herbicide results (dinoseb) based on LCSs
- Two SVOC results based on MSs

The following individual analyte results were qualified as nondetect “U” or nondetect estimated “UJ" based on accuracy criteria for Subarea 6 samples:

- One thousand and thirty-seven metal analyte results were qualified as estimated based on inductively coupled plasma serial dilution results
- Forty-five pesticide results, 51 PCB/PCT results, 18 herbicide results, 11 VOC results, 15 SVOC results, 83 SVOC SIM results were qualified as estimated based on calibration criteria
- Six metal results, three TPH/glycol results; seven pesticide results; 113 herbicide results; 11 VOC results; 280 SVOC results and 130 SVOC results were qualified as estimated based on LCS percent recovery criteria
- Thirteen dioxin results; 227 fluoride/nitrate results; three perchlorate results, 3,268 metal analyte results; 16 hexavalent chromium; 23 mercury results; 23 alcohol/terphenyl results; 75 TPH/glycol results; 37 pesticide results; 25 herbicide results; one VOC result; 97 SVOC results; 27 SVOC SIM results and four energetic results were qualified as estimated based on MS percent recovery criteria
- Fifty-one alcohol/terphenyl results; nine TPH/glycols results; 483 pesticide results; 77 PCB/PCT results; 28 herbicide results; 67 VOC results; nine SVOC results and one formaldehyde result were qualified as estimated based on surrogate recovery criteria
- Thirty-four SVOC results based on internal standards

The following individual analyte results were rejected "R" based on accuracy criteria for the Subarea 6 samples:

- Two fluoride results based on MSs
- Twenty antimony results based on MSs and LCSs
- One ethanol result based on MSs, 10 m-terphenyl results, 10 o-terphenyl results, and 11 p-terphenyl results based on MSs and surrogates
- Two EFH (C12-C14) and three EFH (C8-C11) results based on MSs

- Eighty-one pesticide results based on MSs and surrogates
- Ten PCB/PCT results based on surrogates
- One hundred and nine herbicide results based on LCSs and MSs
- Thirty-nine SVOC results based on MSs and LCSs
- Eight SVOC SIM results (butylbenzylphathalate) based on LCSs

Sample preservation, handling, and holding times are additional measures of accuracy of the data. All sample preservation, holding times and handling criteria were met except for one NDMA result, 30 TPH/glycol results, forty-two pesticide results, and 12 PCB/PCT results. These results were qualified as estimated "J/UJ."

Sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions. Results that have been rejected "R" are not usable.

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 summarized below discuss the results qualified based on field and laboratory blank contamination.

The following individual analyte results were qualified as nondetect "U" based on blank contamination for the Subarea 3 samples:

- Eighty-three dioxin results (37.5%) and 15 metal results (3.8%) were qualified as non-detect due to blank contamination criteria

The following individual analyte results were qualified as nondetect "U" based on blank contamination for the Subarea 6 samples:

- One thousand, nine-hundred and twenty-three dioxin results (30.3%); 13 NDMA results (11.5%); 673 metal results (6%); 33 mercury results (8.8%); seven TPH/glycol results (0.28%); one PCB/PCT result (0.02%); 15 herbicide results (1.02%); 61 VOC results (2.6%) and 67 SVOC results (0.8%) were qualified as non-detect due to blank contamination criteria

The percentage of results qualified as non-detect based on laboratory blank contamination was less than or equal to 5% for all these analyses except for the following analytes: 37.5 percent of the dioxins for Subarea 3; 30.3 percent of the dioxins; 11.5% of the NDMA results; 6 percent of the metal results; and 8.8 percent of the mercury results for Subarea 6.

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 are below the RL. Many of these estimated values have been subsequently qualified as nondetect "U" because the compound was detected in related laboratory blanks. 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.

The other reported analytes that had blank qualifications greater than 5 percent do not indicate a laboratory blank contamination problem as the overall sample counts for those analytes were low. For example, there were only 113 NDMA samples analyzed for Subarea 6 and out of those samples 13 NDMA results were qualified due to blank contamination.

Tables C-2 through C-5 provide a summary of chemicals observed in the equipment and trip blank samples. Most of the equipment blanks, field blanks (full results reported in specific subarea TMs in which they were collected) and trip blanks detected compounds were below the RLs but above the MDLs. ASTM Type II water is not typically certified “clean” to the low RLs established for the low level methods used for the co-located sampling program.

A review of the ASTM Type II field blanks for all Phase 1 sampling showed one detect of heptachlor, three detects of naphthalene, and one detect of RDX above their respective RL. One field blank had detects above the RLs for four metal analytes and one field blank had detects above the RLs for a variety of VOC analytes. ASTM Type II water field blanks will continue to be reviewed to monitor for detected concentrations of analytes throughout the sampling program. The associated sample results were qualified accordingly during the validation process.

A review of all Phase 1 equipment blanks was also performed. In general, a variety of analytes were detected above their respective RLs. The most frequently detected analytes were naphthalene, NDMA and RDX. Napthalene was detected in 28 percent of the equipment blanks, NDMA in 27 percent of the equipment blanks and RDX in 26 percent of the equipment blanks. Other analytes were detected in the equipment blanks with methylene chloride being detected in eight percent of the equipment blanks. All other analytes were detected in less than five percent of the equipment blank samples.

Further review of the equipment blanks is being conducted and all Phase 3 equipment blanks collected to-date are being evaluated to determine if these low level detections are consistent indicating a possible deficiency in decontamination procedures and/or source water impacts that need to be addressed and corrected. Associated sample results were qualified accordingly during the validation process regarding field blank

contamination. No sample results were rejected due to detected concentrations in field blanks or laboratory blanks.

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 WP/FSAP (CDM 2011a) 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 WP/FSAP (CDM 2011a) 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 WP/FSAP (CDM 2011a) 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 viewed 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 and EMAX. 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 RLs established for this project. RLs were established for each analyte in consultation with the laboratory to achieve analytical results at or below regulatory comparison criteria.

The method detection limit (MDL) is defined as the concentration of an analyte that produces a signal with a 99 percent confidence that the concentration is above that of a blank but that that concentration cannot be accurately quantified. 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 MDL and is a laboratory-specific number. The actual sample RL 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.

In reporting environmental sample results, laboratories follow protocols that help ensure that the result reported is at the lowest level and is defensible, taking into account the ability of the instrument to differentiate a signal generated by the analyte from the background instrument noise, imprecision added to the detection capabilities of the analyte due to the sample processing manipulations (MDLs) and sample matrix affects, and adjustments made to the detection limits based on difficulties encountered in analyzing the sample (dilution factors, etc.).

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.

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected below the RL for Subarea 3 samples:

- Method 1613B (Dioxins)
  - 89 individual analyte results
- Method 300 (Fluoride/Nitrate)
  - 5 individual analyte results
- Methods 6010B/6020 (Metals)
  - 54 individual analyte results
- Method 7199 (Hexavalent Chromium)
  - 5 individual analyte results
- Method 7471A (Mercury)
  - 3 individual analyte results
- Method 8015M (TPHs and glycols)
  - 3 individual analyte results
- Method 8081A (Pesticides)
  - 2 individual analyte results
- Method 8082 (PCBs)
  - 8 individual analyte results
- Method 8151A (Herbicides)
  - 2 individual analyte results
- Method 8270C (SVOCs)
  - 4 individual analyte results
- Method 8270C SIM (SVOCs)
  - 41 individual analyte results

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected below the RL for Subarea 6 samples:

- Method 1613B (Dioxins)
  - 2,776 individual analyte results
- Method 1625C (NDMA)
  - 2 individual analyte results
- Method 300 (Fluoride/Nitrate)

  - 57 individual analyte results

- Methods 6010B/6020 (Metals)
  - 1,380 individual analyte results

- Method 6850 (Perchlorate)
  - 3 individual analyte results

- Method 7199 (Hexavalent Chromium)
  - 216 individual analyte results

- Method 7471A (Mercury)
  - 147 individual analyte results

- Method 8015B (Alcohols and terphenyls)
  - 38 individual analyte results

- Method 8015M (TPHs and glycols)
  - 159 individual analyte results

- Method 8081A (Pesticides)
  - 178 individual analyte results

- Method 8082 (PCBs)
  - 135 individual analyte results

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

- Method 8260B (VOCs)
  - 29 individual analyte results

- Method 8270C (SVOCs)
  - 492 individual analyte results

- Method 8270C SIM (SVOCs)
  - 894 individual analyte results

- Method 8315A (Formaldehyde)
  - 10 individual analyte results

- Method 8330A (Energetics)
  - 1 individual analyte result

As discussed in Section C.7.3, the EDLs for the dioxins are calculated for each sample and are very low resulting in numerous results qualified as estimated "J" values because they are below the RL as indicated above. The qualification of the dioxins

results as estimated "J" based on RL criteria does not falsely diminish identification of site-related contaminants.

RLs for the modified methods identified in Table 2-3 of the Subarea 3 and 6 TM are evaluated through the analysis of RL-LCS and RL-MS samples created by LLI. The evaluation of these QC samples is ongoing throughout all subareas and recommendations regarding program-wide sample qualification based on the RL-LCS and RL-MS QC results have not been finalized. Qualification of individual sample results for Subareas 3 and 6, based on the current RL-LCS and RL-MS QC sample results, was not performed.

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 WP/FSAP (CDM 2011a). The detection limits for this project are lower than "normal" environmental data analyses. Analytical laboratory methods were modified in order to achieve the lowest practicable RL. Current laboratory instrumentation technology cannot achieve all of these low project RLs, and thus some of the RLs were above project criteria. These results are still considered usable for project decisions.

C.8 Review of Selected Validation Reports

CDM performed a review of 10 percent 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 that were reviewed were verified against the laboratory data packages and determined that validation documents were followed as required.

C.9 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the WP/FSAP (CDM 2011a) 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. $$\%\text{Completeness} = C_x \frac{100}{n}$$

Where:

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

B. $$\%Completeness = Vx\frac{100}{n'}$$

Where:

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

The overall completeness goal, as defined in the WP/FSAP (CDM 2011a), for these sampling events is 90 percent for each analytical test for all project data.

A total of 14 Subarea 3 and 393 Subarea 6 soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.8, 10 locations were to be sampled in Subarea 3 and 244 locations in Subarea 6. Some locations required only a subsurface sample while other locations required both a surface (or drainage) and a subsurface sample. The number of subsurface samples to be collected at each location was not pre-determined because the total depth of each boring varies depending on the local geology. Of the locations to be sampled in Subarea 3, subsurface samples were not collected at two locations (SL-002 and SL-003) due to shallow refusal at less than 2.5 feet. For Subarea 6 no subsurface samples were collected at 83 locations due to shallow refusal at less than 2.5 feet bgs and samples were not collected at SL-140 and SL-141 due to archeological concerns.

As discussed in Section 2.8 of the TM, the sampling deviations do not impact completeness objectives for this sampling event. Ninety-nine percent of the sample locations identified in the WP/FSAP Addendums for Subareas 3 and 6 were sampled meeting the completeness goal for the number of locations sampled versus number of locations planned to be sampled.

The completeness goal for acceptable data achieved was 99.8 percent of the number of measurements judged to be valid versus the total number of measurements made for all Subarea 3 and Subarea 6 samples analyzed. Tables C-8 and C-9, Completeness Calculation Summary, show a summary of the results that were estimated or rejected.

The following Subarea 3 individual analyte results were rejected per analyses:

- Method 8151A
  - Two out of 20 individual herbicide analyte results (10 percent)
- Method 8270C
  - Two out of 615 SVOC results (0.32 percent)

The following Subarea 6 individual analyte results were rejected per analyses:

- Method 300
  - Two out of 488 fluoride results (0.4 percent)
- Method 6020

- Twenty out of 4,872 antimony results (0.41 percent)

- Method 8015B
  - Thirty-two out of 1,674 individual alcohol/terphenyl analyte results (1.9 percent)

- Method 8015M
  - Five out of 2,455 individual TPH and glycol analyte results (0.2 percent)

- Method 8081A
  - Eighty-one out of 3,066 individual pesticide analyte results (2.64 percent)

- Method 8082
  - Ten out of 4,500 individual PCB/PCT analyte results (0.22 percent)

- Method 8151A
  - One hundred and nine out of 1,460 individual herbicide analyte results (7.46 percent)

- Method 8270
  - Thirty-nine out of 18,949 individual SVOC analyte results (0.20 percent)

- Method 8270C SIM
  - Eight out of 8,286 individual SVOC SIM analyte results (0.09 percent)

The completeness goals for both the locations sampled and the number of measurements judged to be valid were met.

Sampling deviations from that described in the WP/FSAP (CDM Smith 2011a) are discussed in Section 2.8 of the TM. 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 WP/FSAP (CDM 2011a) met appropriate criteria. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated on which to base project decisions.

C.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals

Over 99 percent of the data validated and reported for Subarea 3 and Subarea 6 are suitable for their intended use for site characterization. Sample results that were rejected are not suitable for project use. The rejected analyte results do not impact achievement of the overall project objectives. 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 non-detect due to the low detection limits. This data is considered usable.

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. 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.

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Table C-1 Sample Delivery Groups and Validation Levels for Subarea 3 and Subarea 6

Sample Delivery Group	Level of Validation Performed	CDM Review
Subarea 3		
DE253	Level III	
DE266	Level IV	
DE267	Level III	
DE268	Level III	
DE269	Level III	
DE281	Level III	Yes
DX142	Level III	
DX148	Level III	
DX149	Level III	
DX150	Level III	
DX154	Level III	
Sample Delivery Group	**Level of Validation Performed**	**CDM Review**
Subarea 6		
DE197	Level III	Yes
DE198	Level III	
DE199	Level III	
DE200	Level III	
DE201	Level III	
DE202	Level III	
DE203	Level III	
DE204	Level III	
DE205	Level III	Yes
DE206	Level III	
DE207	Level III	
DE208	Level III	
DE209	Level III	
DE210	Level III	
DE211	Level III	
DE212	Level III	
DE213	Level III	
DE214	Level III	
DE215	Level III	Yes
DE217	Level III	
DE218	Level III	
DE219	Level III	
DE220	Level III	
DE221	Level III	
DE222	Level III	
DE223	Level III	
DE224	Level III	
DE225	Level III	
DE226	Level III	Yes
DE227	Level III	
DE228	Level III	
DE229	Level III	
DE230	Level III	
DE231	Level III	
DE232	Level III	
DE233	Level III	

Table C-1 Sample Delivery Groups and Validation Levels for Subarea 3 and Subarea 6

Sample Delivery Group	Level of Validation Performed	CDM Review
DE234	Level III	
DE235	Level III	
DE236	Level III	
DE237	Level III	
DE238	Level III	
DE239	Level III	
DE240	Level III	
DE241	Level III	
DE260	Level III	
DE261	Level III	
DE262	Level IV	Yes
DE263	Level III	
DE266	Level IV	
DE290	Level III	
DE291	Level III	
DX110	Level III	
DX111	Level III	
DX112	Level III	
DX113	Level III	
DX114	Level III	Yes
DX115	Level III	
DX116	Level III	
DX117	Level III	
DX118	Level III	
DX119	Level III	
DX120	Level III	
DX121	Level III	
DX122	Level III	
DX123	Level III	
DX124	Level III	
DX125	Level III	Yes
DX126	Level III	
DX127	Level III	
DX128	Level III	
DX129	Level III	
DX130	Level III	
DX131	Level III	
DX132	Level III	
DX133	Level III	
DX146	Level III	
DX147	Level III	
DX148	Level III	
DX156	Level III	
11L003	Level IV	Yes

Table C-2 - Subarea 3 Equipment Rinsate Blank Results

	Sample Name:	EB-SA3-SB-101211		EB-SA3-SB-101411		EB-SA3-SB-110711	
	Location:	EB-SA3		EB-SA3		EB-SA3	
	Sample Date:	10/12/2011		10/14/2011		11/07/2011	
	Sample Type	EB		EB		EB	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,2,3,4,6,7,8-HpCDD	pg/l	10.2	U				
1,2,3,4,6,7,8-HpCDF	pg/l	10.2	U				
1,2,3,4,7,8,9-HpCDF	pg/l	10.2	U				
1,2,3,4,7,8-HxCDD	pg/l	0.305	J				
1,2,3,4,7,8-HxCDF	pg/l	10.2	U				
1,2,3,6,7,8-HxCDD	pg/l	0.290	J				
1,2,3,6,7,8-HxCDF	pg/l	10.2	U				
1,2,3,7,8,9-HxCDD	pg/l	10.2	U				
1,2,3,7,8,9-HxCDF	pg/l	10.2	U				
1,2,3,7,8-PeCDD	pg/l	10.2	U				
1,2,3,7,8-PeCDF	pg/l	10.2	U				
1,2,4-Trichlorobenzene	ug/l	5	U				
1,2-Dichlorobenzene	ug/l	5	U				
1,2-Diphenylhydrazine	ug/l	5	U				
1,3,5-Trinitrobenzene	ug/l	0.60	U				
1,3-Dichlorobenzene	ug/l	5	U				
1,4-Dichlorobenzene	ug/l	5	U				
1-Methylnaphthalene	ug/l	0.055	U				
2,3,4,6,7,8-HxCDF	pg/l	10.2	U				
2,3,4,7,8-PeCDF	pg/l	10.2	U				
2,3,7,8-TCDD	pg/l	0.436	J				
2,3,7,8-TCDF	pg/l	2.03	U				
2,4,5-Trichlorophenol	ug/l	5	U				
2,4,6-Trichlorophenol	ug/l	5	U				
2,4,6-Trinitrotoluene	ug/l	0.60	U				
2,4-Diamino-6-nitrotoluene	ug/l	0.60	U				
2,4-Dichlorophenol	ug/l	5	U				
2,4-Dimethylphenol	ug/l	10	U				
2,4-Dinitrophenol	ug/l	29	U				
2,4-Dinitrotoluene	ug/l	0.60 5	U U				
2,6-Diamino-4-nitrotoluene	ug/l	0.60	U				
2,6-Dinitrotoluene	ug/l	0.60 5	U U				
2-Amino-4,6-Dinitrotoluene	ug/l	0.60	U				
2-butoxy-Ethanol	ug/l	48	U				
2-Chloronaphthalene	ug/l	5	U				
2-Chlorophenol	ug/l	5	U				
2-Methylnaphthalene	ug/l	0.055	U				
2-Methylphenol	ug/l	5	U				
2-Nitroaniline	ug/l	5	U				
2-Nitrophenol	ug/l	5	U				
2-Nitrotoluene	ug/l	0.60	U				
2-phenoxy-Ethanol	ug/l	48	U				
2-Propanol	ug/l	1000	U				
3,3`-Dichlorobenzidine	ug/l	5	U				
3,5-Dimethylphenol	ug/l	10	U				
3-Nitroaniline	ug/l	5	U				
3-Nitrotoluene	ug/l	1.2	U				
4,6-Dinitro-2-Methylphenol	ug/l	14	U				
4-Amino-2,6-Dinitrotoluene	ug/l	0.60	U				
4-Bromophenyl Phenyl Ether	ug/l	5	U				
4-Chloro-3-Methylphenol	ug/l	5	U				
4-Chloroaniline	ug/l	5	U				
4-Chlorophenyl Phenylether	ug/l	5	U				
4-Methylphenol	ug/l	5	U				
4-Nitroaniline	ug/l	5	U				
4-Nitrophenol	ug/l	29	U				
4-Nitrotoluene	ug/l	1.2	U				
Acenaphthene	ug/l	0.055	U				
Acenaphthylene	ug/l	0.055	U				
Aluminum	mg/l	0.200	U				
Aniline	ug/l	5	U				
Anthracene	ug/l	0.055	U				
Antimony	mg/l	0.0010	U				
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	U				
Aroclor 5442	ug/l	0.51	U				
Aroclor 5460	ug/l	0.51	U				
Arsenic	mg/l	0.0020	U				
Barium	mg/l	0.0020	U				
Benzidine	ug/l	57	U				
Benzo(a)anthracene	ug/l	0.055	U				
Benzo(a)pyrene	ug/l	0.055	U				
Benzo(b)fluoranthene	ug/l	0.055	U				
Benzo(g,h,i)perylene	ug/l	0.055	U				
Benzo(k)fluoranthene	ug/l	0.055	U				
Benzoic Acid	ug/l	14	U				
Benzyl Alcohol	ug/l	14	U				
Beryllium	mg/l	0.00050	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	1.1	U				
Boron	mg/l	0.0047	J				
Butylbenzylphthalate	ug/l	1.1	U				
Cadmium	mg/l	0.00050	U				
Calcium	mg/l	0.200	U				
Carbazole	ug/l	5	U				
Chromium	mg/l	0.0020	U				
Chromium VI	ug/l	10.0	U				
Chrysene	ug/l	0.055	U				
Cobalt	mg/l	0.00050	U				
Copper	mg/l	0.0020	U				
Cyanide	mg/l	0.010	U				
Dibenzo(a,h)anthracene	ug/l	0.055	U				
Dibenzofuran	ug/l	5	U				
Diethylene Glycol	mg/l	200	U				
Diethylphthalate	ug/l	0.14	J				
Dimethylphthalate	ug/l	1.1	U				
Di-n-Butylphthalate	ug/l	0.28	J				
Di-N-Octyl Phthalate	ug/l	1.1	U				
EFH (C12-C14)	mg/l	0.63	U				
EFH (C15-C20)	mg/l	0.63	U				
EFH (C21-C30)	mg/l	0.63	U				
EFH (C30-C40)	mg/l	0.63	U				
EFH (C8-C11)	mg/l	0.63	U				
Ethanol	ug/l	1000	U				
Ethylene Glycol	mg/l	200	U				
Fluoranthene	ug/l	0.055	U				
Fluorene	ug/l	0.055	U				
Fluoride	mg/l	0.10	U				
Formaldehyde	ug/l	50	U				
GRO (C5-C12)	ug/l	50	U				
Hexachlorobenzene	ug/l	5	U				
Hexachlorobutadiene	ug/l	5	U				
Hexachlorocyclopentadiene	ug/l	14	U				
Hexachloroethane	ug/l	5	U				
HMX	ug/l	2.0	U				
Indeno(1,2,3-Cd)Pyrene	ug/l	0.055	U				
Iron	mg/l	0.200	U				
Isophorone	ug/l	5	U				
Lead	mg/l	0.0010	U				
Lithium	mg/l	0.0200	U				
Magnesium	mg/l	0.100	U				
Manganese	mg/l	0.0050	U				
m-Dinitrobenzene	ug/l	0.60	U				

Table C-2 - Subarea 3 Equipment Rinsate Blank Results

	Sample Name:	EB-SA3-SB-101211		EB-SA3-SB-101411		EB-SA3-SB-110711	
	Location:	EB-SA3		EB-SA3		EB-SA3	
	Sample Date:	10/12/2011		10/14/2011		11/07/2011	
	Sample Type	EB		EB		EB	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Mercury	mg/l	0.00020	U				
Methanol	ug/l	1000	U				
Molybdenum	mg/l	0.00050	U				
m-Terphenyl	mg/l	0.26	U				
Naphthalene	ug/l	0.13					
Nickel	mg/l	0.0020	U				
Nitrate	mg/l	0.10	U				
Nitrobenzene	ug/l	0.60	U				
		5	U				
Nitroglycerin	ug/l	15	U				
N-Nitrosodimethylamine	ng/l	2.69	UJ	1.2	U	2.25	
		2.54	UJ				
N-Nitrosodimethylamine	ug/l	0.055	U				
N-Nitroso-Di-N-Propylamine	ug/l	5	U				
N-Nitrosodiphenylamine	ug/l	5	U				
OCDD	pg/l	20.3	U				
OCDF	pg/l	20.3	U				
o-Terphenyl	mg/l	0.26	U				
Pentachlorophenol	ug/l	14	U				
Perchlorate	ug/l	2.0	U				
PETN	ug/l	18	U				
pH	pH unit	5.5					
Phenanthrene	ug/l	0.055	U				
Phenol	ug/l	5	U				
Phosphorus	mg/l	0.100	U				
Potassium	mg/l	0.500	U				
Propylene glycol	mg/l	200	U				
p-Terphenyl	mg/l	0.26	U				
Pyrene	ug/l	0.055	U				
RDX	ug/l	1.7					
Selenium	mg/l	0.0020	U				
Silver	mg/l	0.00050	U				
Sodium	mg/l	1.00	U				
Strontium	mg/l	0.0050	U				
Tetryl	ug/l	0.60	U				
Thallium	mg/l	0.00050	U				
Tin	mg/l	0.0200	U				
Titanium	mg/l	0.0100	U				
Vanadium	mg/l	0.00050	U				
Zinc	mg/l	0.0150	U				
Zirconium	mg/l	0.0500	U				

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-071211		EB-SA6-SS-071311		EB-SA6-SB-071311		EB-SA6-SS-071911		EB-SA6-SB-072011	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/12/2011		07/13/2011		07/13/2011		07/19/2011		07/20/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l			5	U	5	U			5	U
1,1,1-Trichloroethane	8260B	ug/l			5	U	5	U			5	U
1,1,2,2-Tetrachloroethane	8260B	ug/l			5	U	5	U			5	U
1,1,2-Trichloroethane	8260B	ug/l			5	U	5	U			5	U
1,1-Dichloroethane	8260B	ug/l			5	U	5	U			5	U
1,1-Dichloroethene	8260B	ug/l			5	U	5	U			5	U
1,1-Dichloropropene	8260B	ug/l			5	U	5	U			5	U
1,2,3,4,6,7,8-HpCDD	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,4,6,7,8-HpCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,4,7,8,9-HpCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,4,7,8-HxCDD	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,4,7,8-HxCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,6,7,8-HxCDD	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,6,7,8-HxCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,7,8,9-HxCDD	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,7,8,9-HxCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,7,8-PeCDD	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3,7,8-PeCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
1,2,3-Trichlorobenzene	8260B	ug/l			5	U	5	U			5	U
1,2,3-Trichloropropane	8260B	ug/l			5	U	5	U			5	U
1,2,4-Trichlorobenzene	8260B	ug/l			5	U	5	U			5	U
1,2,4-Trichlorobenzene	8270C	ug/l	5	U			5	U	5	U	5	U
1,2,4-Trimethylbenzene	8260B	ug/l			5	U	5	U			5	U
1,2-Dibromo-3-chloropropane	8260B	ug/l			5	U	5	U			5	U
1,2-Dibromoethane	8260B	ug/l			5	U	5	U			5	U
1,2-Dichlorobenzene	8260B	ug/l			5	U	5	U			5	U
1,2-Dichlorobenzene	8270C	ug/l	5	U			5	U	5	U	5	U
1,2-Dichloroethane	8260B	ug/l			5	U	5	U			5	U
1,2-Dichloropropane	8260B	ug/l			5	U	5	U			5	U
1,2-Diphenylhydrazine	8270C	ug/l	5	U			5	U	5	U	5	U
1,3,5-Trimethylbenzene	8260B	ug/l			5	U	5	U			5	U
1,3,5-Trinitrobenzene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
1,3-Dichlorobenzene	8260B	ug/l			5	U	5	U			5	U
1,3-Dichlorobenzene	8270C	ug/l	5	U			5	U	5	U	5	U
1,3-Dichloropropane	8260B	ug/l			5	U	5	U			5	U
1,4-Dichlorobenzene	8260B	ug/l			5	U	5	U			5	U
1,4-Dichlorobenzene	8270C	ug/l	5	U			5	U	5	U	5	U
1,4-Dioxane	8260B SIM	ug/l			2.0	U	2.0	U			2.0	U
1-Methylnaphthalene	8270C	ug/l										
1-Methylnaphthalene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
2,2-Dichloropropane	8260B	ug/l			5	U	5	U			5	U
2,2-Dichlor-Propionic Acid	8151A	ug/l	1.3	U					1.2	U		
2,3,4,6,7,8-HxCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
2,3,4,7,8-PeCDF	1613B	pg/l	10.8	U			9.90	U	9.96	U	10.6	U
2,3,7,8-TCDD	1613B	pg/l	2.16	U			1.98	U	1.99	U	2.12	U
2,3,7,8-TCDF	1613B	pg/l	2.16	U			1.98	U	1.99	U	2.12	U
2,4 DB	8151A	ug/l	1.0	U					0.96	U		
2,4,5-T	8151A	ug/l	0.051	U					0.048	U		
2,4,5-TP	8151A	ug/l	0.051	U					0.048	U		
2,4,5-Trichlorophenol	8270C	ug/l	5	U			5	U	5	U	5	U
2,4,6-Trichlorophenol	8270C	ug/l	5	U			5	U	5	U	5	U
2,4,6-Trinitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2,4-D	8151A	ug/l	0.51	U					0.48	U		
2,4-Diamino-6-nitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2,4-Dichlorophenol	8270C	ug/l	5	U			5	U	5	U	5	U
2,4-Dimethylphenol	8270C	ug/l	10	U			10	U	10	U	10	U
2,4-Dinitrophenol	8270C	ug/l	30	U			29	U	29	U	31	U
2,4-Dinitrotoluene	8270C	ug/l	5	U			5	U	5	U	5	U
2,4-Dinitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2,6-Diamino-4-nitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2,6-Dinitrotoluene	8270C	ug/l	5	U			5	U	5	U	5	U
2,6-Dinitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2-Amino-4,6-Dinitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2-Butanone	8260B	ug/l			10	U	10	U			10	U
2-butoxy-Ethanol	8270C	ug/l										
2-Chloroethyl Vinyl Ether	8260B	ug/l			10	U	10	U			10	U
2-Chloronaphthalene	8270C	ug/l	5	U			5	U	5	U	5	U
2-Chlorophenol	8270C	ug/l	5	U			5	U	5	U	5	U
2-Chlorotoluene	8260B	ug/l			5	U	5	U			5	U
2-Hexanone	8260B	ug/l			10	U	10	U			10	U
2-Methylnaphthalene	8270C	ug/l										
2-Methylnaphthalene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
2-Methylphenol	8270C	ug/l	5	U			5	U	5	U	5	U
2-Nitroaniline	8270C	ug/l	5	U			5	U	5	U	5	U
2-Nitrophenol	8270C	ug/l	5	U			5	U	5	U	5	U
2-Nitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
2-phenoxy-Ethanol	8270C	ug/l										
2-Propanol	8015B	ug/l	1000	U			1000	UJ	1000	U	1000	U
3,3`-Dichlorobenzidine	8270C	ug/l	5	U			5	U	5	U	5	U
3,5-Dimethylphenol	8270C	ug/l	10	U			10	U	10	U	10	U
3-Nitroaniline	8270C	ug/l	5	U			5	U	5	U	5	U
3-Nitrotoluene	8330A	ug/l	1.2	U			1.2	U	1.2	U	1.2	U
4,4'-DDD	8081A	ug/l	0.020	U					0.019	U		
4,4'-DDE	8081A	ug/l	0.020	U					0.019	U		

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-071211		EB-SA6-SS-071311		EB-SA6-SB-071311		EB-SA6-SS-071911		EB-SA6-SB-072011	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/12/2011		07/13/2011		07/13/2011		07/19/2011		07/20/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
4,4'-DDT	8081A	ug/l	0.020	U					0.019	U		
4,6-Dinitro-2-Methylphenol	8270C	ug/l	15	U			15	U	15	U	15	U
4-Amino-2,6-Dinitrotoluene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
4-Bromophenyl Phenyl Ether	8270C	ug/l	5	U			5	U	5	U	5	U
4-Chloro-3-Methylphenol	8270C	ug/l	5	U			5	U	5	U	5	U
4-Chloroaniline	8270C	ug/l	5	U			5	U	5	U	5	U
4-Chlorophenyl Phenylether	8270C	ug/l	5	U			5	U	5	U	5	U
4-Chlorotoluene	8260B	ug/l			5	U	5	U			5	U
4-Methyl-2-Pentanone	8260B	ug/l			10	U	10	U			10	U
4-Methylphenol	8270C	ug/l	5	U			5	U	5	U	5	U
4-Nitroaniline	8270C	ug/l	5	U			5	U	5	U	5	U
4-Nitrophenol	8270C	ug/l	30	U			29	U	29	U	31	U
4-Nitrotoluene	8330A	ug/l	1.2	U			1.2	U	1.2	U	1.2	U
Acenaphthene	8270C	ug/l										
Acenaphthene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Acenaphthylene	8270C	ug/l										
Acenaphthylene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Acetone	8260B	ug/l			20	UJ	20	UJ			20	U
Aldrin	8081A	ug/l	0.010	U					0.0097	U		
Alpha-BHC	8081A	ug/l	0.010	U					0.0097	U		
Aluminum	6010B	mg/l	0.200	U			0.200	U	0.200	U	0.200	U
Aluminum	6020	mg/l										
Aniline	8270C	ug/l	5	U			5	U	5	U	5	U
Anthracene	8270C	ug/l										
Anthracene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Antimony	6020	mg/l	0.0010	U			0.0010	U	0.0010	U	0.0010	U
Aroclor 1016	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1221	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1232	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1242	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1248	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1254	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1260	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1262	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 1268	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 5432	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 5442	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Aroclor 5460	8082	ug/l	0.49	U			0.49	U	0.48	U	0.50	U
Arsenic	6020	mg/l	0.0020	U			0.0020	U	0.0020	U	0.0020	U
Barium	6020	mg/l	0.0020	U			0.0020	U	0.0020	U	0.0020	U
Benzene	8260B	ug/l			5	U	5	U			5	U
Benzidine	8270C	ug/l	60	U			59	U	59	U	62	U
Benzo(a)anthracene	8270C	ug/l										
Benzo(a)anthracene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Benzo(a)pyrene	8270C	ug/l										
Benzo(a)pyrene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Benzo(b)fluoranthene	8270C	ug/l										
Benzo(b)fluoranthene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Benzo(g,h,i)perylene	8270C	ug/l										
Benzo(g,h,i)perylene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Benzo(k)fluoranthene	8270C	ug/l										
Benzo(k)fluoranthene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Benzoic Acid	8270C	ug/l	15	U			15	U	15	U	15	U
Benzyl Alcohol	8270C	ug/l	15	U			15	U	15	U	15	U
Beryllium	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
Beta-BHC	8081A	ug/l	0.010	U					0.0097	U		
Bis(2-Chloroethoxy) methane	8270C	ug/l	5	U			5	U	5	U	5	U
Bis(2-Chloroethyl) ether	8270C	ug/l	5	U			5	U	5	U	5	U
bis(2-Chloroisopropyl) ether	8270C	ug/l	5	U			5	U	5	U	5	U
Bis(2-Ethylhexyl) phthalate	8270C	ug/l										
Bis(2-Ethylhexyl) phthalate	8270C SIM	ug/l	1.0	U			1.0	U	0.27	J	0.27	J
Boron	6010B	mg/l	0.0500	U			0.0500	U	0.0500	U	0.0500	U
Boron	6020	mg/l										
Bromobenzene	8260B	ug/l			5	U	5	U			5	U
Bromochloromethane	8260B	ug/l			5	U	5	U			5	U
Bromodichloromethane	8260B	ug/l			5	U	5	U			5	U
Bromoform	8260B	ug/l			5	U	5	U			5	U
Bromomethane	8260B	ug/l			5	U	5	U			5	U
Butylbenzylphthalate	8270C	ug/l										
Butylbenzylphthalate	8270C SIM	ug/l	1.0	U			1.0	U	0.17	J	0.18	J
Cadmium	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
Calcium	6010B	mg/l	0.0775	J			0.0740	J	0.200	U	0.200	U
Calcium	6020	mg/l										
Carbazole	8270C	ug/l	5	U			5	U	5	U	5	U
Carbon tetrachloride	8260B	ug/l			5	U	5	U			5	U
Chlordane	8081A	ug/l	0.50	U					0.48	U		
Chlordane (technical)	8081A	ug/l										
Chlorobenzene	8260B	ug/l			5	U	5	U			5	U
Chloroethane	8260B	ug/l			5	U	5	U			5	U
Chloroform	8260B	ug/l			5	U	5	U			5	U
Chloromethane	8260B	ug/l			5	U	5	U			5	U
Chlorotrifluoroethene	8260B	ug/l			5	U	5	U			5	U
Chromium	6020	mg/l	0.0020	U			0.0020	U	0.0020	U	0.0020	U
Chromium VI	7199	ug/l	10.0	U			10.0	U	10.0	U	10.0	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-071211		EB-SA6-SS-071311		EB-SA6-SB-071311		EB-SA6-SS-071911		EB-SA6-SB-072011	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/12/2011		07/13/2011		07/13/2011		07/19/2011		07/20/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Chrysene	8270C	ug/l										
Chrysene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
cis-1,2-Dichloroethene	8260B	ug/l			5	U	5	U			5	U
cis-1,3-Dichloropropene	8260B	ug/l			5	U	5	U			5	U
Cobalt	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
Copper	6020	mg/l	0.0020	U			0.0020	U	0.0020	U	0.0020	U
Cyanide	9012B	mg/l	0.010	U			0.010	U	0.010	U	0.010	U
Cyanide	9014	mg/l										
Delta-BHC	8081A	ug/l	0.010	U					0.0097	U		
Dibenzo(a,h)anthracene	8270C	ug/l										
Dibenzo(a,h)anthracene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Dibenzofuran	8270C	ug/l	5	U			5	U	5	U	5	U
Dibromochloromethane	8260B	ug/l			5	U	5	U			5	U
Dibromomethane	8260B	ug/l			5	U	5	U			5	U
Dicamba	8151A	ug/l	0.31	U					0.29	U		
Dichlorodifluoromethane	8260B	ug/l			5	UJ	5	UJ			5	U
Dichlorprop	8151A	ug/l	0.51	U					0.48	U		
Dieldrin	8081A	ug/l	0.020	U					0.019	U		
Diethylene Glycol	8015M	mg/l	200	U			200	U	200	U	200	U
Diethylphthalate	8270C	ug/l										
Diethylphthalate	8270C SIM	ug/l	1.0	U			1.0	U	1.1	U	1.1	U
Dimethylphthalate	8270C	ug/l										
Dimethylphthalate	8270C SIM	ug/l	1.0	UJ			1.0	UJ	1.1	U	1.1	U
Di-n-Butylphthalate	8270C	ug/l										
Di-n-Butylphthalate	8270C SIM	ug/l	1.0	U			1.0	U	1.1	U	1.1	U
Dinitrobutyl Phenol	8151A	ug/l	0.51	U					0.48	U		
Di-N-Octyl Phthalate	8270C	ug/l										
Di-N-Octyl Phthalate	8270C SIM	ug/l	1.0	U			1.0	U	1.1	U	1.1	U
EFH (C12-C14)	8015B EFH	mg/l										
EFH (C12-C14)	8015M	mg/l	0.61	U			0.60	U	0.62	U	0.60	U
EFH (C15-C20)	8015B EFH	mg/l										
EFH (C15-C20)	8015M	mg/l	0.61	U			0.60	U	0.62	U	0.60	U
EFH (C21-C30)	8015B EFH	mg/l										
EFH (C21-C30)	8015M	mg/l	0.61	U			0.60	U	0.62	U	0.60	U
EFH (C30-C40)	8015B EFH	mg/l										
EFH (C30-C40)	8015M	mg/l	0.61	U			0.60	U	0.62	U	0.60	U
EFH (C8-C11)	8015B EFH	mg/l										
EFH (C8-C11)	8015M	mg/l	0.61	U			0.60	U	0.62	U	0.60	U
Endosulfan I	8081A	ug/l	0.010	U					0.0097	U		
Endosulfan II	8081A	ug/l	0.020	U					0.019	U		
Endosulfan Sulfate	8081A	ug/l	0.020	U					0.019	U		
Endrin	8081A	ug/l	0.020	U					0.019	U		
Endrin Aldehyde	8081A	ug/l	0.10	U					0.097	U		
Endrin Ketone	8081A	ug/l	0.020	U					0.019	U		
Ethanol	8015B	ug/l	1000	U			1000	UJ	1000	U	1000	U
Ethylbenzene	8260B	ug/l			5	U	5	U			5	U
Ethylene Glycol	8015M	mg/l	200	U			200	U	200	UJ	200	UJ
Fluoranthene	8270C	ug/l										
Fluoranthene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Fluorene	8270C	ug/l										
Fluorene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Fluoride	300.0	mg/l	0.10	U			0.10	U	0.10	U	0.10	U
Formaldehyde	8315A	ug/l	50	U			50	U	50	U	50	U
Freon 113	8260B	ug/l			10	U	10	U			10	U
Freon 113a	8260B	ug/l			5	U	5	U			5	U
Gamma-BHC (Lindane)	8081A	ug/l	0.010	U					0.0097	U		
GRO (C5-C12)	8015B GRO	ug/l										
GRO (C5-C12)	8015M	ug/l			50	U	50	U			50	U
Heptachlor	8081A	ug/l	0.011						0.0087	J		
Heptachlor Epoxide	8081A	ug/l	0.010	U					0.0097	U		
Hexachlorobenzene	8270C	ug/l	5	U			5	U	5	U	5	U
Hexachlorobutadiene	8260B	ug/l			5	U	5	U			5	U
Hexachlorobutadiene	8270C	ug/l	5	U			5	U	5	U	5	U
Hexachlorocyclopentadiene	8270C	ug/l	15	U			15	U	15	U	15	U
Hexachloroethane	8270C	ug/l	5	U			5	U	5	U	5	U
HMX	8330A	ug/l	2.0	U			2.0	U	2.0	U	2.0	U
Indeno(1,2,3-Cd)Pyrene	8270C	ug/l										
Indeno(1,2,3-Cd)Pyrene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Iron	6010B	mg/l	0.0154	J			0.200	U	0.200	U	0.200	U
Iron	6020	mg/l										
Isophorone	8270C	ug/l	5	U			5	U	5	U	5	U
Isopropylbenzene	8260B	ug/l			5	U	5	U			5	U
Isopropyltoluene	8260B	ug/l			5	U	5	U			5	U
Lead	6020	mg/l	0.0010	U			0.0010	U	0.0010	U	0.0010	U
Lithium	6010B	mg/l	0.0200	U			0.0200	U	0.0200	U	0.0200	U
Lithium	6020	mg/l										
m,p-Xylene	8260B	ug/l			5	U	5	U			5	U
Magnesium	6010B	mg/l	0.100	U			0.100	U	0.100	U	0.100	U
Magnesium	6020	mg/l										
Manganese	6010B	mg/l	0.0050	U			0.0050	U	0.0050	U	0.0050	U
Manganese	6020	mg/l										
MCPA	8151A	ug/l	1000	U					960	U		
MCPP	8151A	ug/l	200	U					190	U		
m-Dinitrobenzene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-071211		EB-SA6-SS-071311		EB-SA6-SB-071311		EB-SA6-SS-071911		EB-SA6-SB-072011	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/12/2011		07/13/2011		07/13/2011		07/19/2011		07/20/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Mercury	7470A	mg/l	0.00020	U			0.00020	U	0.00020	U	0.00020	U
Methanol	8015B	ug/l	1000	U			1000	UJ	1000	U	1000	U
Methoxychlor	8081A	ug/l	0.10	U					0.097	U		
Methyl tert-Butyl Ether	8260B	ug/l			5	U	5	U			5	U
Methylene chloride	8260B	ug/l			5	U	3	J			5	U
Mirex	8081A	ug/l	0.25	U					0.24	U		
Molybdenum	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
m-Terphenyl	8015B	mg/l	0.26	U			0.26	U	0.24	U	0.24	U
Naphthalene	8270C	ug/l										
Naphthalene	8270C SIM	ug/l	0.050	J			0.068		0.082		0.046	J
N-Butylbenzene	8260B	ug/l			5	U	5	U			5	U
Nickel	6020	mg/l	0.0020	U			0.0020	U	0.0020	U	0.0020	U
Nitrate	300.0	mg/l	0.10	U			0.10	U	0.10	U	0.10	U
Nitrobenzene	8270C	ug/l	5	U			5	U	5	U	5	U
Nitrobenzene	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
Nitroglycerin	8330A	ug/l	15	U			15	U	15	U	15	U
Nitroglycerin	8332	ug/l										
N-Nitrosodimethylamine	1625C	ng/l	4.95				5.16		6.81	UJ	6.29	UJ
N-Nitrosodimethylamine	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
N-Nitroso-Di-N-Propylamine	8270C	ug/l	5	U			5	U	5	U	5	U
N-Nitrosodiphenylamine	8270C	ug/l	5	U			5	U	5	U	5	U
N-Propylbenzene	8260B	ug/l			5	U	5	U			5	U
OCDD	1613B	pg/l	21.6	U			19.8	U	19.9	U	21.2	U
OCDF	1613B	pg/l	21.6	U			19.8	U	19.9	U	21.2	U
o-Terphenyl	8015B	mg/l	0.26	U			0.26	U	0.24	U	0.24	U
o-Xylene	8260B	ug/l			5	U	5	U			5	U
Pentachlorophenol	8270C	ug/l	15	U			15	U	15	U	15	U
Perchlorate	314.0	ug/l	2.0	U			2.0	U	2.0	U	2.0	U
PETN	8330A	ug/l	18	U			18	U	18	U	18	U
PETN	8332	ug/l										
pH	9040B	pH unit	5.0				5.0		5.6		5.5	
pH	9040C	pH unit										
Phenanthrene	8270C	ug/l										
Phenanthrene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
Phenol	8270C	ug/l	5	U			5	U	5	U	5	U
Phosphorus	6010B	mg/l	0.100	U			0.100	U	0.100	U	0.100	U
Phosphorus	6020	mg/l										
Potassium	6010B	mg/l	0.500	U			0.500	U	0.500	U	0.500	U
Potassium	6020	mg/l										
Propylene glycol	8015M	mg/l	200	U			200	U	200	U	200	U
p-Terphenyl	8015B	mg/l	0.26	U			0.26	U	0.24	U	0.24	U
Pyrene	8270C	ug/l										
Pyrene	8270C SIM	ug/l	0.052	U			0.051	U	0.054	U	0.054	U
RDX	8330A	ug/l	0.87				0.95		1.1		1.0	
sec-Butylbenzene	8260B	ug/l			5	U	5	U			5	U
Selenium	6020	mg/l	0.0020	U			0.0020	U	0.0020	U	0.0020	U
Silver	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
Sodium	6010B	mg/l	1.00	U			1.00	U	1.00	U	1.00	U
Sodium	6020	mg/l										
Strontium	6010B	mg/l	0.0050	U			0.0050	U	0.0050	U	0.0050	U
Strontium	6020	mg/l										
Styrene	8260B	ug/l			5	U	5	U			5	U
tert-Butylbenzene	8260B	ug/l			5	U	5	U			5	U
Tetrachloroethene	8260B	ug/l			5	U	5	U			5	U
Tetralin	8270C	ug/l	5	U			5	U	5	U	5	U
Tetryl	8330A	ug/l	0.60	U			0.60	U	0.60	U	0.60	U
Thallium	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
Tin	6010B	mg/l	0.0200	U			0.0200	U	0.0200	U	0.0200	U
Tin	6020	mg/l										
Titanium	6010B	mg/l	0.0100	U			0.0100	U	0.0100	U	0.0100	U
Titanium	6020	mg/l										
Toluene	8260B	ug/l			5	U	5	U			5	U
Toxaphene	8081A	ug/l	3.0	U					2.9	U		
trans-1,2-Dichloroethene	8260B	ug/l			5	U	5	U			5	U
trans-1,3-Dichloropropene	8260B	ug/l			5	U	5	U			5	U
Trichloroethene	8260B	ug/l			5	U	5	U			5	U
Trichlorofluoromethane	8260B	ug/l			5	UJ	5	UJ			5	U
Vanadium	6020	mg/l	0.00050	U			0.00050	U	0.00050	U	0.00050	U
Vinyl Chloride	8260B	ug/l			5	U	5	U			5	U
Zinc	6020	mg/l	0.0150	U			0.0150	U	0.0150	U	0.0150	U
Zirconium	6010B	mg/l	0.0500	U			0.0500	U	0.0500	U	0.0500	U
Zirconium	6020	mg/l										

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-072611		EB-SA6-SB-072711		EB-SA6-SB-080211		EB-SA6-SB-080911		EB-SA6-SB-081711	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/26/2011		07/27/2011		08/02/2011		08/09/2011		08/17/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,1,1-Trichloroethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,1-Dichloroethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,1-Dichloroethene	8260B	ug/l			5	U	5	U	5	U	5	U
1,1-Dichloropropene	8260B	ug/l			5	U	5	U	5	U	5	U
1,2,3,4,6,7,8-HpCDD	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,4,6,7,8-HpCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,4,7,8,9-HpCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,4,7,8-HxCDD	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,4,7,8-HxCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,6,7,8-HxCDD	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,6,7,8-HxCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,7,8,9-HxCDD	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,7,8,9-HxCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,7,8-PeCDD	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
1,2,3,7,8-PeCDF	1613B	pg/l	1.65	J	0.377	J	10.4	U	9.59	U	9.56	U
1,2,3-Trichlorobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,2,3-Trichloropropane	8260B	ug/l			5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,2,4-Trichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
1,2,4-Trimethylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,2-Dibromo-3-chloropropane	8260B	ug/l			5	U	5	U	5	U	5	U
1,2-Dibromoethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,2-Dichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	8260B	ug/l			5	U	5	U	5	U	5	U
1,2-Dichloropropane	8260B	ug/l			5	U	5	U	5	U	5	U
1,2-Diphenylhydrazine	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,3,5-Trinitrobenzene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
1,3-Dichlorobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,3-Dichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
1,3-Dichloropropane	8260B	ug/l			5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
1,4-Dichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane	8260B SIM	ug/l			2.0	U	2.0	U	2.0	U	2.0	U
1-Methylnaphthalene	8270C	ug/l										
1-Methylnaphthalene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
2,2-Dichloropropane	8260B	ug/l			5	U	5	U	5	U	5	U
2,2-Dichlor-Propionic Acid	8151A	ug/l	1.3	U								
2,3,4,6,7,8-HxCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
2,3,4,7,8-PeCDF	1613B	pg/l	9.94	U	9.80	U	10.4	U	9.59	U	9.56	U
2,3,7,8-TCDD	1613B	pg/l	1.99	U	1.96	U	2.07	U	1.92	U	1.91	U
2,3,7,8-TCDF	1613B	pg/l	1.99	U	0.571	J	0.136	J	1.92	U	1.91	U
2,4 DB	8151A	ug/l	1.0	U								
2,4,5-T	8151A	ug/l	1.6	UJ								
2,4,5-TP	8151A	ug/l	0.052	U								
2,4,5-Trichlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2,4,6-Trinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2,4-D	8151A	ug/l	4.8	U								
2,4-Diamino-6-nitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2,4-Dichlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol	8270C	ug/l	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrophenol	8270C	ug/l	30	U	31	U	30	UJ	30	U	30	U
2,4-Dinitrotoluene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2,4-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2,6-Diamino-4-nitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2,6-Dinitrotoluene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2-Amino-4,6-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2-Butanone	8260B	ug/l			10	U	10	U	10	U	10	U
2-butoxy-Ethanol	8270C	ug/l										
2-Chloroethyl Vinyl Ether	8260B	ug/l			10	U	10	U	10	U	10	U
2-Chloronaphthalene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2-Chlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2-Chlorotoluene	8260B	ug/l			5	U	5	U	5	U	5	U
2-Hexanone	8260B	ug/l			10	U	10	U	10	U	10	U
2-Methylnaphthalene	8270C	ug/l										
2-Methylnaphthalene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
2-Methylphenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2-Nitroaniline	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2-Nitrophenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
2-Nitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
2-phenoxy-Ethanol	8270C	ug/l										
2-Propanol	8015B	ug/l	1000	U	1000	U	1000	U	1000	U	1000	U
3,3`-Dichlorobenzidine	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
3,5-Dimethylphenol	8270C	ug/l	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
3-Nitrotoluene	8330A	ug/l	1.2	U	1.2	U	1.2	U	1.2	U	1.8	U
4,4'-DDD	8081A	ug/l	0.020	U								
4,4'-DDE	8081A	ug/l	0.020	U								

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-072611		EB-SA6-SB-072711		EB-SA6-SB-080211		EB-SA6-SB-080911		EB-SA6-SB-081711	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/26/2011		07/27/2011		08/02/2011		08/09/2011		08/17/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
4,4'-DDT	8081A	ug/l	0.020	U								
4,6-Dinitro-2-Methylphenol	8270C	ug/l	15	U	16	U	15	UJ	15	U	15	U
4-Amino-2,6-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.34	J	0.60	U	0.60	U
4-Bromophenyl Phenyl Ether	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
4-Chloro-3-Methylphenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
4-Chloroaniline	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
4-Chlorophenyl Phenylether	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
4-Chlorotoluene	8260B	ug/l			5	U	5	U	5	U	5	U
4-Methyl-2-Pentanone	8260B	ug/l			10	U	10	U	10	U	10	U
4-Methylphenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
4-Nitrophenol	8270C	ug/l	30	U	31	U	30	U	30	U	30	U
4-Nitrotoluene	8330A	ug/l	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U
Acenaphthene	8270C	ug/l										
Acenaphthene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Acenaphthylene	8270C	ug/l										
Acenaphthylene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Acetone	8260B	ug/l			20	U	20	U	13	J	20	U
Aldrin	8081A	ug/l	0.0098	U								
Alpha-BHC	8081A	ug/l	0.0098	U								
Aluminum	6010B	mg/l	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Aluminum	6020	mg/l										
Aniline	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Anthracene	8270C	ug/l										
Anthracene	8270C SIM	ug/l	0.049	U	0.053	U	0.12		0.051	U	0.048	U
Antimony	6020	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Aroclor 1016	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1221	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1232	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1242	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1248	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1254	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1260	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1262	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 1268	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 5432	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 5442	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Aroclor 5460	8082	ug/l	0.49	U	0.50	U	0.51	U	0.50	U	0.51	U
Arsenic	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Barium	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Benzene	8260B	ug/l			5	U	5	U	5	U	5	U
Benzidine	8270C	ug/l	61	U	62	U	61	U	60	U	60	U
Benzo(a)anthracene	8270C	ug/l										
Benzo(a)anthracene	8270C SIM	ug/l	0.049	U	0.053	U	0.015	J	0.051	U	0.048	U
Benzo(a)pyrene	8270C	ug/l										
Benzo(a)pyrene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Benzo(b)fluoranthene	8270C	ug/l										
Benzo(b)fluoranthene	8270C SIM	ug/l	0.049	U	0.053	U	0.013	J	0.051	U	0.048	U
Benzo(g,h,i)perylene	8270C	ug/l										
Benzo(g,h,i)perylene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Benzo(k)fluoranthene	8270C	ug/l										
Benzo(k)fluoranthene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Benzoic Acid	8270C	ug/l	15	UJ	16	UJ	15	UJ	15	R	15	U
Benzyl Alcohol	8270C	ug/l	15	U	16	U	15	U	15	U	15	U
Beryllium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
Beta-BHC	8081A	ug/l	0.0098	U								
Bis(2-Chloroethoxy) methane	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Bis(2-Chloroethyl) ether	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
bis(2-Chloroisopropyl) ether	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Bis(2-Ethylhexyl) phthalate	8270C	ug/l										
Bis(2-Ethylhexyl) phthalate	8270C SIM	ug/l	0.98	U	0.062	J	0.27	J	0.094	J	0.10	J
Boron	6010B	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Boron	6020	mg/l										
Bromobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Bromochloromethane	8260B	ug/l			5	U	5	U	5	U	5	U
Bromodichloromethane	8260B	ug/l			5	U	5	U	5	U	5	U
Bromoform	8260B	ug/l			5	U	5	U	5	U	5	U
Bromomethane	8260B	ug/l			5	U	5	U	5	U	5	U
Butylbenzylphthalate	8270C	ug/l										
Butylbenzylphthalate	8270C SIM	ug/l	0.98	U	1.1	U	0.14	J	0.15	J	0.95	U
Cadmium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
Calcium	6010B	mg/l	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Calcium	6020	mg/l										
Carbazole	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Carbon tetrachloride	8260B	ug/l			5	U	5	U	5	U	5	U
Chlordane	8081A	ug/l	0.49	U								
Chlordane (technical)	8081A	ug/l										
Chlorobenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Chloroethane	8260B	ug/l			5	U	5	U	5	U	5	UJ
Chloroform	8260B	ug/l			5	U	5	U	5	U	5	U
Chloromethane	8260B	ug/l			5	U	5	U	5	U	5	U
Chlorotrifluoroethene	8260B	ug/l			5	U	5	U	5	U	5	U
Chromium	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Chromium VI	7199	ug/l	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-072611		EB-SA6-SB-072711		EB-SA6-SB-080211		EB-SA6-SB-080911		EB-SA6-SB-081711	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/26/2011		07/27/2011		08/02/2011		08/09/2011		08/17/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Chrysene	8270C	ug/l										
Chrysene	8270C SIM	ug/l	0.049	U	0.053	U	0.014	J	0.051	U	0.048	U
cis-1,2-Dichloroethene	8260B	ug/l			5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	8260B	ug/l			5	U	5	U	5	U	5	U
Cobalt	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
Copper	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Cyanide	9012B	mg/l	0.010	U	0.010	U	0.010	U	0.010	U	0.010	U
Cyanide	9014	mg/l										
Delta-BHC	8081A	ug/l	0.0098	U								
Dibenzo(a,h)anthracene	8270C	ug/l										
Dibenzo(a,h)anthracene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Dibenzofuran	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	8260B	ug/l			5	U	5	U	5	U	5	U
Dibromomethane	8260B	ug/l			5	U	5	U	5	U	5	U
Dicamba	8151A	ug/l	0.31	U								
Dichlorodifluoromethane	8260B	ug/l			5	U	5	U	5	U	5	U
Dichlorprop	8151A	ug/l	0.52	U								
Dieldrin	8081A	ug/l	0.020	U								
Diethylene Glycol	8015M	mg/l	200	U	200	U	200	U	200	U	200	UJ
Diethylphthalate	8270C	ug/l										
Diethylphthalate	8270C SIM	ug/l	0.98	U	0.080	J	0.086	J	0.065	J	0.22	J
Dimethylphthalate	8270C	ug/l										
Dimethylphthalate	8270C SIM	ug/l	0.98	UJ	1.1	UJ	1.0	U	1.0	U	0.95	U
Di-n-Butylphthalate	8270C	ug/l										
Di-n-Butylphthalate	8270C SIM	ug/l	0.14	J	0.50	J	0.22	J	0.16	J	0.69	J
Dinitrobutyl Phenol	8151A	ug/l	0.52	U								
Di-N-Octyl Phthalate	8270C	ug/l										
Di-N-Octyl Phthalate	8270C SIM	ug/l	0.98	U	1.1	U	0.20	J	0.14	J	0.073	J
EFH (C12-C14)	8015B EFH	mg/l										
EFH (C12-C14)	8015M	mg/l	0.59	U	0.59	U	0.58	UJ	0.59	U	0.62	U
EFH (C15-C20)	8015B EFH	mg/l										
EFH (C15-C20)	8015M	mg/l	0.59	U	0.59	U	0.58	UJ	0.59	U	0.62	U
EFH (C21-C30)	8015B EFH	mg/l										
EFH (C21-C30)	8015M	mg/l	0.59	U	0.59	U	0.58	UJ	0.59	U	0.62	U
EFH (C30-C40)	8015B EFH	mg/l										
EFH (C30-C40)	8015M	mg/l	0.59	U	0.59	U	0.58	UJ	0.59	U	0.62	U
EFH (C8-C11)	8015B EFH	mg/l										
EFH (C8-C11)	8015M	mg/l	0.59	U	0.59	U	0.58	UJ	0.59	U	0.62	U
Endosulfan I	8081A	ug/l	0.0098	U								
Endosulfan II	8081A	ug/l	0.020	U								
Endosulfan Sulfate	8081A	ug/l	0.020	U								
Endrin	8081A	ug/l	0.020	U								
Endrin Aldehyde	8081A	ug/l	0.098	U								
Endrin Ketone	8081A	ug/l	0.020	U								
Ethanol	8015B	ug/l	1000	U	1000	U	1000	U	1000	U	1000	U
Ethylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Ethylene Glycol	8015M	mg/l	200	U	200	U	200	U	200	U	200	UJ
Fluoranthene	8270C	ug/l										
Fluoranthene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Fluorene	8270C	ug/l										
Fluorene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Fluoride	300.0	mg/l	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Formaldehyde	8315A	ug/l	50	U	50	U	50	U	50	U	50	U
Freon 113	8260B	ug/l			10	U	10	U	10	U	10	U
Freon 113a	8260B	ug/l			5	UJ	5	U	5	U	5	U
Gamma-BHC (Lindane)	8081A	ug/l	0.0098	U								
GRO (C5-C12)	8015B GRO	ug/l										
GRO (C5-C12)	8015M	ug/l			50	U	50	U	91		50	U
Heptachlor	8081A	ug/l	0.0074	J								
Heptachlor Epoxide	8081A	ug/l	0.0098	U								
Hexachlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Hexachlorobutadiene	8260B	ug/l			5	U	5	U	5	U	5	U
Hexachlorobutadiene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Hexachlorocyclopentadiene	8270C	ug/l	15	U	16	U	15	U	15	U	15	U
Hexachloroethane	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
HMX	8330A	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Indeno(1,2,3-Cd)Pyrene	8270C	ug/l										
Indeno(1,2,3-Cd)Pyrene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Iron	6010B	mg/l	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Iron	6020	mg/l										
Isophorone	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Isopropylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Isopropyltoluene	8260B	ug/l			5	U	5	U	5	U	5	U
Lead	6020	mg/l	0.0010	U	0.0010	U	0.0010	U	0.000083	J	0.00029	J
Lithium	6010B	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
Lithium	6020	mg/l										
m,p-Xylene	8260B	ug/l			5	U	5	U	5	U	5	U
Magnesium	6010B	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
Magnesium	6020	mg/l										
Manganese	6010B	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U	0.0050	U
Manganese	6020	mg/l										
MCPA	8151A	ug/l	1000	U								
MCPP	8151A	ug/l	210	U								
m-Dinitrobenzene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SS-072611		EB-SA6-SB-072711		EB-SA6-SB-080211		EB-SA6-SB-080911		EB-SA6-SB-081711	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	07/26/2011		07/27/2011		08/02/2011		08/09/2011		08/17/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Mercury	7470A	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U	0.00020	U
Methanol	8015B	ug/l	1000	U	1000	U	1000	U	1000	U	1000	U
Methoxychlor	8081A	ug/l	0.098	U								
Methyl tert-Butyl Ether	8260B	ug/l			5	U	5	U	5	U	5	U
Methylene chloride	8260B	ug/l			5	U	5	U	5	U	5	U
Mirex	8081A	ug/l	0.25	U								
Molybdenum	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
m-Terphenyl	8015B	mg/l	0.25	U	0.25	U	0.26	U	0.28	U	0.25	U
Naphthalene	8270C	ug/l										
Naphthalene	8270C SIM	ug/l	0.11		0.087		0.044	J	0.048	J	0.063	
N-Butylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Nickel	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Nitrate	300.0	mg/l	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Nitrobenzene	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Nitrobenzene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U	0.60	U
Nitroglycerin	8330A	ug/l	15	U	15	U	15	U	15	U	15	U
Nitroglycerin	8332	ug/l										
N-Nitrosodimethylamine	1625C	ng/l	3.56	J	2.30	J	4.53	J	3.68	UJ	2.49	J
N-Nitrosodimethylamine	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
N-Nitroso-Di-N-Propylamine	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
N-Nitrosodiphenylamine	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
N-Propylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
OCDD	1613B	pg/l	19.9	U	19.6	U	20.7	U	19.2	U	19.1	U
OCDF	1613B	pg/l	19.9	U	19.6	U	20.7	U	19.2	U	19.1	U
o-Terphenyl	8015B	mg/l	0.25	U	0.25	U	0.26	U	0.28	U	0.25	U
o-Xylene	8260B	ug/l			5	U	5	U	5	U	5	U
Pentachlorophenol	8270C	ug/l	15	U	16	U	15	U	15	U	15	U
Perchlorate	314.0	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
PETN	8330A	ug/l	18	U	18	U	18	U	18	U	18	U
PETN	8332	ug/l										
pH	9040B	pH unit	5.4		6.2		6.0		6.0		5.5	
pH	9040C	pH unit										
Phenanthrene	8270C	ug/l										
Phenanthrene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
Phenol	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Phosphorus	6010B	mg/l	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U
Phosphorus	6020	mg/l										
Potassium	6010B	mg/l	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Potassium	6020	mg/l										
Propylene glycol	8015M	mg/l	200	U	200	U	200	U	200	U	200	UJ
p-Terphenyl	8015B	mg/l	0.25	U	0.25	U	0.26	U	0.28	U	0.25	U
Pyrene	8270C	ug/l										
Pyrene	8270C SIM	ug/l	0.049	U	0.053	U	0.051	U	0.051	U	0.048	U
RDX	8330A	ug/l	0.98		2.0		1.6		1.1		1.9	
sec-Butylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Selenium	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U	0.0020	U
Silver	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
Sodium	6010B	mg/l	1.00	U	0.295	J	1.00	U	1.00	U	1.00	U
Sodium	6020	mg/l										
Strontium	6010B	mg/l	0.0050	U	0.00026	J	0.0050	U	0.0050	U	0.0050	U
Strontium	6020	mg/l										
Styrene	8260B	ug/l			5	U	5	U	5	U	5	U
tert-Butylbenzene	8260B	ug/l			5	U	5	U	5	U	5	U
Tetrachloroethene	8260B	ug/l			5	U	5	U	5	U	5	U
Tetralin	8270C	ug/l	5	U	5	U	5	U	5	U	5	U
Tetryl	8330A	ug/l	0.60	U	0.60	U	0.60	UJ	0.60	U	0.60	UJ
Thallium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
Tin	6010B	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
Tin	6020	mg/l										
Titanium	6010B	mg/l	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Titanium	6020	mg/l										
Toluene	8260B	ug/l			5	U	5	U	5	U	5	U
Toxaphene	8081A	ug/l	2.9	U								
trans-1,2-Dichloroethene	8260B	ug/l			5	U	5	U	5	U	5	U
trans-1,3-Dichloropropene	8260B	ug/l			5	U	5	U	5	U	5	U
Trichloroethene	8260B	ug/l			5	U	5	U	5	U	5	U
Trichlorofluoromethane	8260B	ug/l			5	U	5	U	5	U	5	U
Vanadium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U	0.00050	U
Vinyl Chloride	8260B	ug/l			5	U	5	U	5	U	5	U
Zinc	6020	mg/l	0.0150	U	0.0150	U	0.0150	U	0.0150	U	0.0150	U
Zirconium	6010B	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Zirconium	6020	mg/l										

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-082311		EB-SA6-SB-082411		EB-SA6-SB-083011		EB-SA6-SB-090711		EB-SA6-SB-100311	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	08/23/2011		08/24/2011		08/30/2011		09/07/2011		10/03/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l	5	U	5	U			5	U		
1,1,1-Trichloroethane	8260B	ug/l	5	U	5	U			5	U		
1,1,2,2-Tetrachloroethane	8260B	ug/l	5	U	5	U			5	U		
1,1,2-Trichloroethane	8260B	ug/l	5	U	5	U			5	U		
1,1-Dichloroethane	8260B	ug/l	5	U	5	U			5	U		
1,1-Dichloroethene	8260B	ug/l	5	U	5	U			5	U		
1,1-Dichloropropene	8260B	ug/l	5	U	5	U			5	U		
1,2,3,4,6,7,8-HpCDD	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,4,6,7,8-HpCDF	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,4,7,8,9-HpCDF	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,4,7,8-HxCDD	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,4,7,8-HxCDF	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,6,7,8-HxCDD	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,6,7,8-HxCDF	1613B	pg/l	9.95	U	10.3	U	10.3	U	0.296	J		
1,2,3,7,8,9-HxCDD	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,7,8,9-HxCDF	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,7,8-PeCDD	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3,7,8-PeCDF	1613B	pg/l	9.95	U	10.3	U	10.3	U	9.85	U		
1,2,3-Trichlorobenzene	8260B	ug/l	5	U	5	U			5	U		
1,2,3-Trichloropropane	8260B	ug/l	5	U	5	U			5	U		
1,2,4-Trichlorobenzene	8260B	ug/l	5	U	5	U			5	U		
1,2,4-Trichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U		
1,2,4-Trimethylbenzene	8260B	ug/l	5	U	5	U			5	U		
1,2-Dibromo-3-chloropropane	8260B	ug/l	5	U	5	U			5	U		
1,2-Dibromoethane	8260B	ug/l	5	U	5	U			5	U		
1,2-Dichlorobenzene	8260B	ug/l	5	U	5	U			5	U		
1,2-Dichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U		
1,2-Dichloroethane	8260B	ug/l	5	U	5	U			5	U		
1,2-Dichloropropane	8260B	ug/l	5	U	5	U			5	U		
1,2-Diphenylhydrazine	8270C	ug/l	5	U	5	U	5	U	5	U		
1,3,5-Trimethylbenzene	8260B	ug/l	5	U	5	U			5	U		
1,3,5-Trinitrobenzene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	UJ		
1,3-Dichlorobenzene	8260B	ug/l	5	U	5	U			5	U		
1,3-Dichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U		
1,3-Dichloropropane	8260B	ug/l	5	U	5	U			5	U		
1,4-Dichlorobenzene	8260B	ug/l	5	U	5	U			5	U		
1,4-Dichlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U		
1,4-Dioxane	8260B SIM	ug/l	2.0	U	2.0	U			2.0	U		
1-Methylnaphthalene	8270C	ug/l										
1-Methylnaphthalene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
2,2-Dichloropropane	8260B	ug/l	5	U	5	U			5	U		
2,2-Dichlor-Propionic Acid	8151A	ug/l										
2,3,4,6,7,8-HxCDF	1613B	pg/l	0.554	J	10.3	U	10.3	U	9.85	U		
2,3,4,7,8-PeCDF	1613B	pg/l	9.95	U	10.3	U	0.473	J	9.85	U		
2,3,7,8-TCDD	1613B	pg/l	1.99	U	2.07	U	2.06	U	1.97	U		
2,3,7,8-TCDF	1613B	pg/l	1.99	U	2.07	U	2.06	U	1.97	U		
2,4 DB	8151A	ug/l										
2,4,5-T	8151A	ug/l										
2,4,5-TP	8151A	ug/l										
2,4,5-Trichlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U		
2,4,6-Trichlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U		
2,4,6-Trinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2,4-D	8151A	ug/l										
2,4-Diamino-6-nitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2,4-Dichlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U		
2,4-Dimethylphenol	8270C	ug/l	10	U	11	U	10	U	11	U		
2,4-Dinitrophenol	8270C	ug/l	30	U	32	U	30	U	32	U		
2,4-Dinitrotoluene	8270C	ug/l	5	U	5	U	5	U	5	U		
2,4-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2,6-Diamino-4-nitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2,6-Dinitrotoluene	8270C	ug/l	5	U	5	U	5	U	5	U		
2,6-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2-Amino-4,6-Dinitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2-Butanone	8260B	ug/l	10	U	10	U			10	U		
2-butoxy-Ethanol	8270C	ug/l										
2-Chloroethyl Vinyl Ether	8260B	ug/l	10	U	10	U			10	U		
2-Chloronaphthalene	8270C	ug/l	5	U	5	U	5	U	5	U		
2-Chlorophenol	8270C	ug/l	5	U	5	U	5	U	5	U		
2-Chlorotoluene	8260B	ug/l	5	U	5	U			5	U		
2-Hexanone	8260B	ug/l	10	U	10	U			10	U		
2-Methylnaphthalene	8270C	ug/l										
2-Methylnaphthalene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
2-Methylphenol	8270C	ug/l	5	U	5	U	5	U	5	U		
2-Nitroaniline	8270C	ug/l	5	U	5	U	5	U	5	U		
2-Nitrophenol	8270C	ug/l	5	U	5	U	5	U	5	U		
2-Nitrotoluene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
2-phenoxy-Ethanol	8270C	ug/l										
2-Propanol	8015B	ug/l	1000	U	1000	U	1000	U	1000	U		
3,3`-Dichlorobenzidine	8270C	ug/l	5	U	5	U	5	U	5	U		
3,5-Dimethylphenol	8270C	ug/l	10	U	11	U	10	U	11	U		
3-Nitroaniline	8270C	ug/l	5	U	5	U	5	U	5	U		
3-Nitrotoluene	8330A	ug/l	1.2	U	1.2	U	1.2	U	1.2	U		
4,4'-DDD	8081A	ug/l										
4,4'-DDE	8081A	ug/l										

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-082311		EB-SA6-SB-082411		EB-SA6-SB-083011		EB-SA6-SB-090711		EB-SA6-SB-100311	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	08/23/2011		08/24/2011		08/30/2011		09/07/2011		10/03/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
4,4'-DDT	8081A	ug/l										
4,6-Dinitro-2-Methylphenol	8270C	ug/l	15	U	16	U	15	U	16	U		
4-Amino-2,6-Dinitrotoluene	8330A	ug/l	0.59	J	0.34	J	0.46	J	0.38	J		
4-Bromophenyl Phenyl Ether	8270C	ug/l	5	U	5	U	5	U	5	U		
4-Chloro-3-Methylphenol	8270C	ug/l	5	U	5	U	5	U	5	U		
4-Chloroaniline	8270C	ug/l	5	U	5	U	5	U	5	U		
4-Chlorophenyl Phenylether	8270C	ug/l	5	U	5	U	5	U	5	U		
4-Chlorotoluene	8260B	ug/l	5	U	5	U			5	U		
4-Methyl-2-Pentanone	8260B	ug/l	10	U	10	U			10	U		
4-Methylphenol	8270C	ug/l	5	U	5	U	5	U	5	U		
4-Nitroaniline	8270C	ug/l	5	U	5	U	5	U	5	U		
4-Nitrophenol	8270C	ug/l	30	U	32	U	30	U	32	U		
4-Nitrotoluene	8330A	ug/l	1.2	U	1.2	U	1.2	U	1.2	U		
Acenaphthene	8270C	ug/l										
Acenaphthene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Acenaphthylene	8270C	ug/l										
Acenaphthylene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Acetone	8260B	ug/l	34		36				25			
Aldrin	8081A	ug/l										
Alpha-BHC	8081A	ug/l										
Aluminum	6010B	mg/l	0.200	U	0.200	U	0.200	U	0.200	U		
Aluminum	6020	mg/l										
Aniline	8270C	ug/l	5	U	5	U	5	U	5	U		
Anthracene	8270C	ug/l										
Anthracene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Antimony	6020	mg/l	0.0010	U	0.0010	U	0.0010	U	0.0010	U		
Aroclor 1016	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1221	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1232	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1242	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1248	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1254	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1260	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1262	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 1268	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 5432	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 5442	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Aroclor 5460	8082	ug/l	0.54	U	0.50	U	0.52	U	0.53	U		
Arsenic	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U		
Barium	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U		
Benzene	8260B	ug/l	5	U	5	U			5	U		
Benzidine	8270C	ug/l	60	U	64	U	61	U	64	U		
Benzo(a)anthracene	8270C	ug/l										
Benzo(a)anthracene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Benzo(a)pyrene	8270C	ug/l										
Benzo(a)pyrene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Benzo(b)fluoranthene	8270C	ug/l										
Benzo(b)fluoranthene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Benzo(g,h,i)perylene	8270C	ug/l										
Benzo(g,h,i)perylene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Benzo(k)fluoranthene	8270C	ug/l										
Benzo(k)fluoranthene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Benzoic Acid	8270C	ug/l	15	U	16	U	15	U	16	U		
Benzyl Alcohol	8270C	ug/l	15	U	16	U	15	U	16	U		
Beryllium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
Beta-BHC	8081A	ug/l										
Bis(2-Chloroethoxy) methane	8270C	ug/l	5	U	5	U	5	U	5	U		
Bis(2-Chloroethyl) ether	8270C	ug/l	5	U	5	U	5	U	5	U		
bis(2-Chloroisopropyl) ether	8270C	ug/l	5	U	5	U	5	U	5	U		
Bis(2-Ethylhexyl) phthalate	8270C	ug/l										
Bis(2-Ethylhexyl) phthalate	8270C SIM	ug/l	0.12	J	0.098	J	0.20	J	1.0	U		
Boron	6010B	mg/l	0.0052	J	0.0041	J	0.0500	U	0.0500	U		
Boron	6020	mg/l										
Bromobenzene	8260B	ug/l	5	U	5	U			5	U		
Bromochloromethane	8260B	ug/l	5	U	5	U			5	U		
Bromodichloromethane	8260B	ug/l	5	U	5	U			5	U		
Bromoform	8260B	ug/l	5	U	5	U			5	U		
Bromomethane	8260B	ug/l	5	U	5	U			5	U		
Butylbenzylphthalate	8270C	ug/l										
Butylbenzylphthalate	8270C SIM	ug/l	0.14	J	0.14	J	0.14	J	1.0	U		
Cadmium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
Calcium	6010B	mg/l	0.200	U	0.200	U	0.200	U	0.200	U		
Calcium	6020	mg/l										
Carbazole	8270C	ug/l	5	U	5	U	5	U	5	U		
Carbon tetrachloride	8260B	ug/l	5	U	5	U			5	U		
Chlordane	8081A	ug/l										
Chlordane (technical)	8081A	ug/l										
Chlorobenzene	8260B	ug/l	5	U	5	U			5	U		
Chloroethane	8260B	ug/l	5	U	5	U			5	U		
Chloroform	8260B	ug/l	1	J	1	J			5	U		
Chloromethane	8260B	ug/l	5	U	5	U			5	U		
Chlorotrifluoroethene	8260B	ug/l	5	U	5	U			5	U		
Chromium	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U		
Chromium VI	7199	ug/l	10.0	U	10.0	U	10.0	U	10.0	UJ		

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-082311		EB-SA6-SB-082411		EB-SA6-SB-083011		EB-SA6-SB-090711		EB-SA6-SB-100311	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	08/23/2011		08/24/2011		08/30/2011		09/07/2011		10/03/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Chrysene	8270C	ug/l										
Chrysene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
cis-1,2-Dichloroethene	8260B	ug/l	5	U	5	U			5	U		
cis-1,3-Dichloropropene	8260B	ug/l	5	U	5	U			5	U		
Cobalt	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
Copper	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U		
Cyanide	9012B	mg/l	0.010	U	0.010	U	0.010	U	0.010	U		
Cyanide	9014	mg/l										
Delta-BHC	8081A	ug/l										
Dibenzo(a,h)anthracene	8270C	ug/l										
Dibenzo(a,h)anthracene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Dibenzofuran	8270C	ug/l	5	U	5	U	5	U	5	U		
Dibromochloromethane	8260B	ug/l	5	U	5	U			5	U		
Dibromomethane	8260B	ug/l	5	U	5	U			5	U		
Dicamba	8151A	ug/l										
Dichlorodifluoromethane	8260B	ug/l	5	U	5	U			5	U		
Dichlorprop	8151A	ug/l										
Dieldrin	8081A	ug/l										
Diethylene Glycol	8015M	mg/l	200	U	200	U	200	U	200	U		
Diethylphthalate	8270C	ug/l										
Diethylphthalate	8270C SIM	ug/l	0.28	J	0.33	J	0.34	J	0.23	J		
Dimethylphthalate	8270C	ug/l										
Dimethylphthalate	8270C SIM	ug/l	1.0	U	1.1	U	0.99	U	1.0	U		
Di-n-Butylphthalate	8270C	ug/l										
Di-n-Butylphthalate	8270C SIM	ug/l	0.85	J	0.85	J	0.95	J	1.0	U		
Dinitrobutyl Phenol	8151A	ug/l										
Di-N-Octyl Phthalate	8270C	ug/l										
Di-N-Octyl Phthalate	8270C SIM	ug/l	0.17	J	0.24	J	0.16	J	1.0	U		
EFH (C12-C14)	8015B EFH	mg/l										
EFH (C12-C14)	8015M	mg/l	0.61	U	0.61	U	0.60	U	0.61	U		
EFH (C15-C20)	8015B EFH	mg/l										
EFH (C15-C20)	8015M	mg/l	0.61	U	0.61	U	0.60	U	0.61	U		
EFH (C21-C30)	8015B EFH	mg/l										
EFH (C21-C30)	8015M	mg/l	0.61	U	0.61	U	0.60	U	0.61	U		
EFH (C30-C40)	8015B EFH	mg/l										
EFH (C30-C40)	8015M	mg/l	0.61	U	0.61	U	0.60	U	0.61	U		
EFH (C8-C11)	8015B EFH	mg/l										
EFH (C8-C11)	8015M	mg/l	0.61	U	0.61	U	0.60	U	0.61	U		
Endosulfan I	8081A	ug/l										
Endosulfan II	8081A	ug/l										
Endosulfan Sulfate	8081A	ug/l										
Endrin	8081A	ug/l										
Endrin Aldehyde	8081A	ug/l										
Endrin Ketone	8081A	ug/l										
Ethanol	8015B	ug/l	1000	U	1000	U	1000	U	1000	U		
Ethylbenzene	8260B	ug/l	5	U	5	U			5	U		
Ethylene Glycol	8015M	mg/l	200	U	200	U	200	U	200	UJ		
Fluoranthene	8270C	ug/l										
Fluoranthene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Fluorene	8270C	ug/l										
Fluorene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Fluoride	300.0	mg/l	0.10	U	0.10	U	0.10	U	0.10	U		
Formaldehyde	8315A	ug/l	50	U	50	U	50	U	50	U		
Freon 113	8260B	ug/l	10	U	10	U			10	U		
Freon 113a	8260B	ug/l	5	U	5	U			5	U		
Gamma-BHC (Lindane)	8081A	ug/l										
GRO (C5-C12)	8015B GRO	ug/l										
GRO (C5-C12)	8015M	ug/l	50	U	50		50	U	50	U		
Heptachlor	8081A	ug/l										
Heptachlor Epoxide	8081A	ug/l										
Hexachlorobenzene	8270C	ug/l	5	U	5	U	5	U	5	U		
Hexachlorobutadiene	8260B	ug/l	5	U	5	U			5	U		
Hexachlorobutadiene	8270C	ug/l	5	U	5	U	5	U	5	U		
Hexachlorocyclopentadiene	8270C	ug/l	15	U	16	U	15	U	16	U		
Hexachloroethane	8270C	ug/l	5	U	5	U	5	U	5	U		
HMX	8330A	ug/l	2.0	U	2.0	U	2.0	U	2.0	U		
Indeno(1,2,3-Cd)Pyrene	8270C	ug/l										
Indeno(1,2,3-Cd)Pyrene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Iron	6010B	mg/l	0.200	U	0.200	U	0.200	U	0.200	U		
Iron	6020	mg/l										
Isophorone	8270C	ug/l	5	U	5	U	5	U	5	U		
Isopropylbenzene	8260B	ug/l	5	U	5	U			5	U		
Isopropyltoluene	8260B	ug/l	5	U	5	U			5	U		
Lead	6020	mg/l	0.000093	J	0.0010	U	0.0010	U	0.0010	U		
Lithium	6010B	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U		
Lithium	6020	mg/l										
m,p-Xylene	8260B	ug/l	5	U	5	U			5	U		
Magnesium	6010B	mg/l	0.100	U	0.100	U	0.100	U	0.100	U		
Magnesium	6020	mg/l										
Manganese	6010B	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U		
Manganese	6020	mg/l										
MCPA	8151A	ug/l										
MCPP	8151A	ug/l										
m-Dinitrobenzene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-082311		EB-SA6-SB-082411		EB-SA6-SB-083011		EB-SA6-SB-090711		EB-SA6-SB-100311	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	08/23/2011		08/24/2011		08/30/2011		09/07/2011		10/03/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Mercury	7470A	mg/l	0.00020	U	0.00020	U	0.00020	U	0.00020	U		
Methanol	8015B	ug/l	1000	U	1000	U	1000	U	1000	U		
Methoxychlor	8081A	ug/l										
Methyl tert-Butyl Ether	8260B	ug/l	5	U	5	U			5	U		
Methylene chloride	8260B	ug/l	14		13				6			
Mirex	8081A	ug/l										
Molybdenum	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
m-Terphenyl	8015B	mg/l	0.24	U	0.25	U	0.25	U	0.24	U		
Naphthalene	8270C	ug/l										
Naphthalene	8270C SIM	ug/l	0.082		0.042	J	0.050	U	0.051	U		
N-Butylbenzene	8260B	ug/l	5	U	5	U			5	U		
Nickel	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U		
Nitrate	300.0	mg/l	0.10	U	0.10	U	0.10	U	0.10	U		
Nitrobenzene	8270C	ug/l	5	U	5	U	5	U	5	U		
Nitrobenzene	8330A	ug/l	0.60	U	0.60	U	0.60	U	0.60	U		
Nitroglycerin	8330A	ug/l	15	U	15	U	15	U	15	U		
Nitroglycerin	8332	ug/l										
N-Nitrosodimethylamine	1625C	ng/l	3.27	J	3.17	J	2.89	J	2.79	J	2.62	J
N-Nitrosodimethylamine	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
N-Nitroso-Di-N-Propylamine	8270C	ug/l	5	U	5	U	5	U	5	U		
N-Nitrosodiphenylamine	8270C	ug/l	5	U	5	U	5	U	5	U		
N-Propylbenzene	8260B	ug/l	5	U	5	U			5	U		
OCDD	1613B	pg/l	19.9	U	20.7	U	20.6	U	19.7	U		
OCDF	1613B	pg/l	19.9	U	20.7	U	20.6	U	19.7	U		
o-Terphenyl	8015B	mg/l	0.24	U	0.25	U	0.25	U	0.24	U		
o-Xylene	8260B	ug/l	5	U	5	U			5	U		
Pentachlorophenol	8270C	ug/l	15	U	16	U	15	U	16	U		
Perchlorate	314.0	ug/l	2.0	U	2.0	U	2.0	U	2.0	U		
PETN	8330A	ug/l	18	U	18	U	18	U	18	U		
PETN	8332	ug/l										
pH	9040B	pH unit	5.1		6.0		6.0		5.6			
pH	9040C	pH unit										
Phenanthrene	8270C	ug/l										
Phenanthrene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
Phenol	8270C	ug/l	5	U	5	U	5	U	5	U		
Phosphorus	6010B	mg/l	0.100	U	0.100	U	0.100	U	0.100	U		
Phosphorus	6020	mg/l										
Potassium	6010B	mg/l	0.500	U	0.500	U	0.500	U	0.500	U		
Potassium	6020	mg/l										
Propylene glycol	8015M	mg/l	200	U	200	U	200	U	200	UJ		
p-Terphenyl	8015B	mg/l	0.24	U	0.25	U	0.25	U	0.24	U		
Pyrene	8270C	ug/l										
Pyrene	8270C SIM	ug/l	0.051	U	0.053	U	0.050	U	0.051	U		
RDX	8330A	ug/l	3.6		3.5		3.4		2.8			
sec-Butylbenzene	8260B	ug/l	5	U	5	U			5	U		
Selenium	6020	mg/l	0.0020	U	0.0020	U	0.0020	U	0.0020	U		
Silver	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
Sodium	6010B	mg/l	1.00	U	1.00	U	1.00	U	1.00	U		
Sodium	6020	mg/l										
Strontium	6010B	mg/l	0.0050	U	0.0050	U	0.0050	U	0.0050	U		
Strontium	6020	mg/l										
Styrene	8260B	ug/l	5	U	5	U			5	U		
tert-Butylbenzene	8260B	ug/l	5	U	5	U			5	U		
Tetrachloroethene	8260B	ug/l	5	U	5	U			5	U		
Tetralin	8270C	ug/l	5	U	5	U	5	U	5	U		
Tetryl	8330A	ug/l	0.60	U	0.60	U	0.60	UJ	0.60	UJ		
Thallium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
Tin	6010B	mg/l	0.0200	U	0.0200	U	0.0200	U	0.0200	U		
Tin	6020	mg/l										
Titanium	6010B	mg/l	0.0100	U	0.0100	U	0.0100	U	0.0100	U		
Titanium	6020	mg/l										
Toluene	8260B	ug/l	5	U	5	U			5	U		
Toxaphene	8081A	ug/l										
trans-1,2-Dichloroethene	8260B	ug/l	5	U	5	U			5	U		
trans-1,3-Dichloropropene	8260B	ug/l	5	U	5	U			5	U		
Trichloroethene	8260B	ug/l	5	U	5	U			5	U		
Trichlorofluoromethane	8260B	ug/l	5	U	5	U			5	U		
Vanadium	6020	mg/l	0.00050	U	0.00050	U	0.00050	U	0.00050	U		
Vinyl Chloride	8260B	ug/l	5	U	5	U			5	U		
Zinc	6020	mg/l	0.0150	U	0.0150	U	0.0150	U	0.0150	U		
Zirconium	6010B	mg/l	0.0500	U	0.0500	U	0.0500	U	0.0500	U		
Zirconium	6020	mg/l										

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-100411		EB-SA6-SB-100511		EB-SA6-SB-NDMA-100511		EB-SA6-SB-100611		EB-SA6-SB-NDMA-100611	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	10/04/2011		10/05/2011		10/05/2011		10/06/2011		10/06/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l			5	U			5	U		
1,1,1-Trichloroethane	8260B	ug/l			5	U			5	U		
1,1,2,2-Tetrachloroethane	8260B	ug/l			5	U			5	U		
1,1,2-Trichloroethane	8260B	ug/l			5	U			5	U		
1,1-Dichloroethane	8260B	ug/l			5	U			5	U		
1,1-Dichloroethene	8260B	ug/l			5	U			5	U		
1,1-Dichloropropene	8260B	ug/l			5	U			5	U		
1,2,3,4,6,7,8-HpCDD	1613B	pg/l			10.6	U			9.55	U		
1,2,3,4,6,7,8-HpCDF	1613B	pg/l			10.6	U			9.55	U		
1,2,3,4,7,8,9-HpCDF	1613B	pg/l			10.6	U			9.55	U		
1,2,3,4,7,8-HxCDD	1613B	pg/l			10.6	U			9.55	U		
1,2,3,4,7,8-HxCDF	1613B	pg/l			10.6	U			9.55	U		
1,2,3,6,7,8-HxCDD	1613B	pg/l			0.198	J			0.354	J		
1,2,3,6,7,8-HxCDF	1613B	pg/l			10.6	U			9.55	U		
1,2,3,7,8,9-HxCDD	1613B	pg/l			0.190	J			9.55	U		
1,2,3,7,8,9-HxCDF	1613B	pg/l			0.139	J			9.55	U		
1,2,3,7,8-PeCDD	1613B	pg/l			0.260	J			9.55	U		
1,2,3,7,8-PeCDF	1613B	pg/l			10.6	U			9.55	U		
1,2,3-Trichlorobenzene	8260B	ug/l			5	U			5	U		
1,2,3-Trichloropropane	8260B	ug/l			5	U			5	U		
1,2,4-Trichlorobenzene	8260B	ug/l			5	U			5	U		
1,2,4-Trichlorobenzene	8270C	ug/l			5	U			5	U		
1,2,4-Trimethylbenzene	8260B	ug/l			5	U			5	U		
1,2-Dibromo-3-chloropropane	8260B	ug/l			5	U			5	U		
1,2-Dibromoethane	8260B	ug/l			5	U			5	U		
1,2-Dichlorobenzene	8260B	ug/l			5	U			5	U		
1,2-Dichlorobenzene	8270C	ug/l			5	U			5	U		
1,2-Dichloroethane	8260B	ug/l			5	U			5	U		
1,2-Dichloropropane	8260B	ug/l			5	U			5	U		
1,2-Diphenylhydrazine	8270C	ug/l			5	U			5	U		
1,3,5-Trimethylbenzene	8260B	ug/l			5	U			5	U		
1,3,5-Trinitrobenzene	8330A	ug/l			0.60	U			0.60	U		
1,3-Dichlorobenzene	8260B	ug/l			5	U			5	U		
1,3-Dichlorobenzene	8270C	ug/l			5	U			5	U		
1,3-Dichloropropane	8260B	ug/l			5	U			5	U		
1,4-Dichlorobenzene	8260B	ug/l			5	U			5	U		
1,4-Dichlorobenzene	8270C	ug/l			5	U			5	U		
1,4-Dioxane	8260B SIM	ug/l			2.0	U			2.0	U		
1-Methylnaphthalene	8270C	ug/l										
1-Methylnaphthalene	8270C SIM	ug/l			0.048	U			0.048	U		
2,2-Dichloropropane	8260B	ug/l			5	U			5	U		
2,2-Dichlor-Propionic Acid	8151A	ug/l							1.3	U		
2,3,4,6,7,8-HxCDF	1613B	pg/l			10.6	U			9.55	U		
2,3,4,7,8-PeCDF	1613B	pg/l			10.6	U			9.55	U		
2,3,7,8-TCDD	1613B	pg/l			2.13	U			1.91	U		
2,3,7,8-TCDF	1613B	pg/l			2.13	U			1.91	U		
2,4 DB	8151A	ug/l							1.1	U		
2,4,5-T	8151A	ug/l							0.053	U		
2,4,5-TP	8151A	ug/l							0.053	U		
2,4,5-Trichlorophenol	8270C	ug/l			5	U			5	U		
2,4,6-Trichlorophenol	8270C	ug/l			5	U			5	U		
2,4,6-Trinitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2,4-D	8151A	ug/l							0.53	U		
2,4-Diamino-6-nitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2,4-Dichlorophenol	8270C	ug/l			5	U			5	U		
2,4-Dimethylphenol	8270C	ug/l			10	U			10	U		
2,4-Dinitrophenol	8270C	ug/l			31	U			31	U		
2,4-Dinitrotoluene	8270C	ug/l			5	U			5	U		
2,4-Dinitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2,6-Diamino-4-nitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2,6-Dinitrotoluene	8270C	ug/l			5	U			5	U		
2,6-Dinitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2-Amino-4,6-Dinitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2-Butanone	8260B	ug/l			10	U			10	U		
2-butoxy-Ethanol	8270C	ug/l										
2-Chloroethyl Vinyl Ether	8260B	ug/l			10	U			10	U		
2-Chloronaphthalene	8270C	ug/l			5	U			5	U		
2-Chlorophenol	8270C	ug/l			5	U			5	U		
2-Chlorotoluene	8260B	ug/l			5	U			5	U		
2-Hexanone	8260B	ug/l			10	U			10	U		
2-Methylnaphthalene	8270C	ug/l										
2-Methylnaphthalene	8270C SIM	ug/l			0.048	U			0.048	U		
2-Methylphenol	8270C	ug/l			5	U			5	U		
2-Nitroaniline	8270C	ug/l			5	U			5	U		
2-Nitrophenol	8270C	ug/l			5	U			5	U		
2-Nitrotoluene	8330A	ug/l			0.60	U			0.60	U		
2-phenoxy-Ethanol	8270C	ug/l										
2-Propanol	8015B	ug/l			1000	U			1000	U		
3,3`-Dichlorobenzidine	8270C	ug/l			5	U			5	U		
3,5-Dimethylphenol	8270C	ug/l			10	U			10	U		
3-Nitroaniline	8270C	ug/l			5	U			5	U		
3-Nitrotoluene	8330A	ug/l			1.2	U			1.2	U		
4,4'-DDD	8081A	ug/l							0.020	U		
4,4'-DDE	8081A	ug/l							0.020	U		

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-100411		EB-SA6-SB-100511		EB-SA6-SB-NDMA-100511		EB-SA6-SB-100611		EB-SA6-SB-NDMA-100611	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	10/04/2011		10/05/2011		10/05/2011		10/06/2011		10/06/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
4,4'-DDT	8081A	ug/l							0.020	U		
4,6-Dinitro-2-Methylphenol	8270C	ug/l			16	U			15	U		
4-Amino-2,6-Dinitrotoluene	8330A	ug/l			0.99				0.89			
4-Bromophenyl Phenyl Ether	8270C	ug/l			5	U			5	U		
4-Chloro-3-Methylphenol	8270C	ug/l			5	U			5	U		
4-Chloroaniline	8270C	ug/l			5	U			5	U		
4-Chlorophenyl Phenylether	8270C	ug/l			5	U			5	U		
4-Chlorotoluene	8260B	ug/l			5	U			5	U		
4-Methyl-2-Pentanone	8260B	ug/l			10	U			10	U		
4-Methylphenol	8270C	ug/l			5	U			5	U		
4-Nitroaniline	8270C	ug/l			5	U			5	U		
4-Nitrophenol	8270C	ug/l			31	U			31	U		
4-Nitrotoluene	8330A	ug/l			1.2	U			1.2	U		
Acenaphthene	8270C	ug/l										
Acenaphthene	8270C SIM	ug/l			0.048	U			0.048	U		
Acenaphthylene	8270C	ug/l										
Acenaphthylene	8270C SIM	ug/l			0.048	U			0.048	U		
Acetone	8260B	ug/l			26				20	U		
Aldrin	8081A	ug/l							0.010	U		
Alpha-BHC	8081A	ug/l							0.010	U		
Aluminum	6010B	mg/l			0.200	U			0.200	U		
Aluminum	6020	mg/l										
Aniline	8270C	ug/l			5	U			5	U		
Anthracene	8270C	ug/l										
Anthracene	8270C SIM	ug/l			0.048	U			0.048	U		
Antimony	6020	mg/l			0.0010	U			0.0010	U		
Aroclor 1016	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1221	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1232	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1242	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1248	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1254	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1260	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1262	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 1268	8082	ug/l			0.50	UJ			0.51	UJ		
Aroclor 5432	8082	ug/l			0.50	U			0.51	U		
Aroclor 5442	8082	ug/l			0.50	U			0.51	U		
Aroclor 5460	8082	ug/l			0.50	U			0.51	U		
Arsenic	6020	mg/l			0.0020	U			0.0020	U		
Barium	6020	mg/l			0.0020	U			0.0020	U		
Benzene	8260B	ug/l			5	U			5	U		
Benzidine	8270C	ug/l			63	U			62	U		
Benzo(a)anthracene	8270C	ug/l										
Benzo(a)anthracene	8270C SIM	ug/l			0.048	U			0.048	U		
Benzo(a)pyrene	8270C	ug/l										
Benzo(a)pyrene	8270C SIM	ug/l			0.048	U			0.048	U		
Benzo(b)fluoranthene	8270C	ug/l										
Benzo(b)fluoranthene	8270C SIM	ug/l			0.048	U			0.048	U		
Benzo(g,h,i)perylene	8270C	ug/l										
Benzo(g,h,i)perylene	8270C SIM	ug/l			0.048	U			0.048	U		
Benzo(k)fluoranthene	8270C	ug/l										
Benzo(k)fluoranthene	8270C SIM	ug/l			0.048	U			0.048	U		
Benzoic Acid	8270C	ug/l			16	U			15	U		
Benzyl Alcohol	8270C	ug/l			16	U			15	U		
Beryllium	6020	mg/l			0.00050	U			0.00050	U		
Beta-BHC	8081A	ug/l							0.010	U		
Bis(2-Chloroethoxy) methane	8270C	ug/l			5	U			5	U		
Bis(2-Chloroethyl) ether	8270C	ug/l			5	U			5	U		
bis(2-Chloroisopropyl) ether	8270C	ug/l			5	U			5	U		
Bis(2-Ethylhexyl) phthalate	8270C	ug/l										
Bis(2-Ethylhexyl) phthalate	8270C SIM	ug/l			0.11	J			0.13	J		
Boron	6010B	mg/l			0.0500	U			0.0500	U		
Boron	6020	mg/l										
Bromobenzene	8260B	ug/l			5	U			5	U		
Bromochloromethane	8260B	ug/l			5	U			5	U		
Bromodichloromethane	8260B	ug/l			5	U			5	U		
Bromoform	8260B	ug/l			5	U			5	U		
Bromomethane	8260B	ug/l			5	U			5	U		
Butylbenzylphthalate	8270C	ug/l										
Butylbenzylphthalate	8270C SIM	ug/l			0.95	U			0.95	U		
Cadmium	6020	mg/l			0.00050	U			0.00050	U		
Calcium	6010B	mg/l			0.200	U			0.200	U		
Calcium	6020	mg/l										
Carbazole	8270C	ug/l			5	U			5	U		
Carbon tetrachloride	8260B	ug/l			5	U			5	U		
Chlordane	8081A	ug/l							0.51	U		
Chlordane (technical)	8081A	ug/l										
Chlorobenzene	8260B	ug/l			5	U			5	U		
Chloroethane	8260B	ug/l			5	U			5	U		
Chloroform	8260B	ug/l			5	U			5	U		
Chloromethane	8260B	ug/l			5	U			5	U		
Chlorotrifluoroethene	8260B	ug/l			5	U			5	U		
Chromium	6020	mg/l			0.0020	U			0.0020	U		
Chromium VI	7199	ug/l			10.0	U			10.0	U		

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-100411		EB-SA6-SB-100511		EB-SA6-SB-NDMA-100511		EB-SA6-SB-100611		EB-SA6-SB-NDMA-100611	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	10/04/2011		10/05/2011		10/05/2011		10/06/2011		10/06/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Chrysene	8270C	ug/l										
Chrysene	8270C SIM	ug/l			0.048	U			0.048	U		
cis-1,2-Dichloroethene	8260B	ug/l			5	U			5	U		
cis-1,3-Dichloropropene	8260B	ug/l			5	U			5	U		
Cobalt	6020	mg/l			0.00050	U			0.00050	U		
Copper	6020	mg/l			0.0020	U			0.0020	U		
Cyanide	9012B	mg/l			0.010	U			0.010	U		
Cyanide	9014	mg/l										
Delta-BHC	8081A	ug/l							0.010	U		
Dibenzo(a,h)anthracene	8270C	ug/l										
Dibenzo(a,h)anthracene	8270C SIM	ug/l			0.048	U			0.048	U		
Dibenzofuran	8270C	ug/l			5	U			5	U		
Dibromochloromethane	8260B	ug/l			5	U			5	U		
Dibromomethane	8260B	ug/l			5	U			5	U		
Dicamba	8151A	ug/l							0.32	U		
Dichlorodifluoromethane	8260B	ug/l			5	U			5	U		
Dichlorprop	8151A	ug/l							0.53	U		
Dieldrin	8081A	ug/l							0.020	U		
Diethylene Glycol	8015M	mg/l			200	U			200	U		
Diethylphthalate	8270C	ug/l										
Diethylphthalate	8270C SIM	ug/l			0.26	J			0.15	J		
Dimethylphthalate	8270C	ug/l										
Dimethylphthalate	8270C SIM	ug/l			0.95	U			0.95	U		
Di-n-Butylphthalate	8270C	ug/l										
Di-n-Butylphthalate	8270C SIM	ug/l			0.70	J			0.30	J		
Dinitrobutyl Phenol	8151A	ug/l							0.53	U		
Di-N-Octyl Phthalate	8270C	ug/l										
Di-N-Octyl Phthalate	8270C SIM	ug/l			0.95	U			0.95	U		
EFH (C12-C14)	8015B EFH	mg/l										
EFH (C12-C14)	8015M	mg/l			0.57	U			0.57	U		
EFH (C15-C20)	8015B EFH	mg/l										
EFH (C15-C20)	8015M	mg/l			0.57	U			0.57	U		
EFH (C21-C30)	8015B EFH	mg/l										
EFH (C21-C30)	8015M	mg/l			0.57	U			0.57	U		
EFH (C30-C40)	8015B EFH	mg/l										
EFH (C30-C40)	8015M	mg/l			0.57	U			0.57	U		
EFH (C8-C11)	8015B EFH	mg/l										
EFH (C8-C11)	8015M	mg/l			0.57	U			0.57	U		
Endosulfan I	8081A	ug/l							0.010	U		
Endosulfan II	8081A	ug/l							0.020	U		
Endosulfan Sulfate	8081A	ug/l							0.020	U		
Endrin	8081A	ug/l							0.020	U		
Endrin Aldehyde	8081A	ug/l							0.10	U		
Endrin Ketone	8081A	ug/l							0.020	U		
Ethanol	8015B	ug/l			1000	U			1000	U		
Ethylbenzene	8260B	ug/l			5	U			5	U		
Ethylene Glycol	8015M	mg/l			200	UJ			200	U		
Fluoranthene	8270C	ug/l										
Fluoranthene	8270C SIM	ug/l			0.048	U			0.048	U		
Fluorene	8270C	ug/l										
Fluorene	8270C SIM	ug/l			0.048	U			0.048	U		
Fluoride	300.0	mg/l			0.10	U			0.10	U		
Formaldehyde	8315A	ug/l			50	U			50	U		
Freon 113	8260B	ug/l			10	U			10	U		
Freon 113a	8260B	ug/l			5	U			5	U		
Gamma-BHC (Lindane)	8081A	ug/l							0.010	U		
GRO (C5-C12)	8015B GRO	ug/l										
GRO (C5-C12)	8015M	ug/l			50	U			50	U		
Heptachlor	8081A	ug/l							0.010	U		
Heptachlor Epoxide	8081A	ug/l							0.010	U		
Hexachlorobenzene	8270C	ug/l			5	U			5	U		
Hexachlorobutadiene	8260B	ug/l			5	U			5	U		
Hexachlorobutadiene	8270C	ug/l			5	U			5	U		
Hexachlorocyclopentadiene	8270C	ug/l			16	U			15	U		
Hexachloroethane	8270C	ug/l			5	U			5	U		
HMX	8330A	ug/l			2.0	U			2.0	U		
Indeno(1,2,3-Cd)Pyrene	8270C	ug/l										
Indeno(1,2,3-Cd)Pyrene	8270C SIM	ug/l			0.048	U			0.048	U		
Iron	6010B	mg/l			0.200	U			0.200	U		
Iron	6020	mg/l										
Isophorone	8270C	ug/l			5	U			5	U		
Isopropylbenzene	8260B	ug/l			5	U			5	U		
Isopropyltoluene	8260B	ug/l			5	U			5	U		
Lead	6020	mg/l			0.0010	U			0.0015			
Lithium	6010B	mg/l			0.0200	U			0.0200	U		
Lithium	6020	mg/l										
m,p-Xylene	8260B	ug/l			5	U			5	U		
Magnesium	6010B	mg/l			0.100	U			0.100	U		
Magnesium	6020	mg/l										
Manganese	6010B	mg/l			0.0050	U			0.0050	U		
Manganese	6020	mg/l										
MCPA	8151A	ug/l							1100	U		
MCPP	8151A	ug/l							210	U		
m-Dinitrobenzene	8330A	ug/l			0.60	U			0.60	U		

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-100411		EB-SA6-SB-100511		EB-SA6-SB-NDMA-100511		EB-SA6-SB-100611		EB-SA6-SB-NDMA-100611	
		Location:	EB-SA6		EB-SA6		EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	10/04/2011		10/05/2011		10/05/2011		10/06/2011		10/06/2011	
		Sample Type	EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Mercury	7470A	mg/l			0.00020	U			0.00020	U		
Methanol	8015B	ug/l			1000	U			1000	U		
Methoxychlor	8081A	ug/l							0.10	U		
Methyl tert-Butyl Ether	8260B	ug/l			5	U			5	U		
Methylene chloride	8260B	ug/l			5	U			7			
Mirex	8081A	ug/l							0.25	U		
Molybdenum	6020	mg/l			0.00050	U			0.00050	U		
m-Terphenyl	8015B	mg/l			0.25	U			0.25	U		
Naphthalene	8270C	ug/l										
Naphthalene	8270C SIM	ug/l			0.034	J			0.033	J		
N-Butylbenzene	8260B	ug/l			5	U			5	U		
Nickel	6020	mg/l			0.0020	U			0.0020	U		
Nitrate	300.0	mg/l			0.10	U			0.10	U		
Nitrobenzene	8270C	ug/l			5	U			5	U		
Nitrobenzene	8330A	ug/l			0.60	U			0.60	U		
Nitroglycerin	8330A	ug/l			15	U			15	U		
Nitroglycerin	8332	ug/l										
N-Nitrosodimethylamine	1625C	ng/l	2.24	J	2.86	J	2.69	J	2.35	J	1.05	J
N-Nitrosodimethylamine	8270C SIM	ug/l			0.048	U			0.048	U		
N-Nitroso-Di-N-Propylamine	8270C	ug/l			5	U			5	U		
N-Nitrosodiphenylamine	8270C	ug/l			5	U			5	U		
N-Propylbenzene	8260B	ug/l			5	U			5	U		
OCDD	1613B	pg/l			21.3	U			19.1	U		
OCDF	1613B	pg/l			21.3	U			19.1	U		
o-Terphenyl	8015B	mg/l			0.25	U			0.25	U		
o-Xylene	8260B	ug/l			5	U			5	U		
Pentachlorophenol	8270C	ug/l			16	U			15	U		
Perchlorate	314.0	ug/l			2.0	U			2.0	U		
PETN	8330A	ug/l			18	U			18	U		
PETN	8332	ug/l										
pH	9040B	pH unit			5.5				5.6			
pH	9040C	pH unit										
Phenanthrene	8270C	ug/l										
Phenanthrene	8270C SIM	ug/l			0.048	U			0.048	U		
Phenol	8270C	ug/l			5	U			5	U		
Phosphorus	6010B	mg/l			0.100	U			0.100	U		
Phosphorus	6020	mg/l										
Potassium	6010B	mg/l			0.500	U			0.500	U		
Potassium	6020	mg/l										
Propylene glycol	8015M	mg/l			200	UJ			200	U		
p-Terphenyl	8015B	mg/l			0.25	U			0.25	U		
Pyrene	8270C	ug/l										
Pyrene	8270C SIM	ug/l			0.048	U			0.048	U		
RDX	8330A	ug/l			3.2				3.2			
sec-Butylbenzene	8260B	ug/l			5	U			5	U		
Selenium	6020	mg/l			0.0020	U			0.0020	U		
Silver	6020	mg/l			0.00050	U			0.00050	U		
Sodium	6010B	mg/l			1.00	U			1.00	U		
Sodium	6020	mg/l										
Strontium	6010B	mg/l			0.0050	U			0.0050	U		
Strontium	6020	mg/l										
Styrene	8260B	ug/l			5	U			5	U		
tert-Butylbenzene	8260B	ug/l			5	U			5	U		
Tetrachloroethene	8260B	ug/l			5	U			5	U		
Tetralin	8270C	ug/l			5	U			5	U		
Tetryl	8330A	ug/l			0.60	U			0.60	U		
Thallium	6020	mg/l			0.00050	U			0.00050	U		
Tin	6010B	mg/l			0.0200	U			0.0200	U		
Tin	6020	mg/l										
Titanium	6010B	mg/l			0.0100	U			0.0100	U		
Titanium	6020	mg/l										
Toluene	8260B	ug/l			5	U			5	U		
Toxaphene	8081A	ug/l							3.0	U		
trans-1,2-Dichloroethene	8260B	ug/l			5	U			5	U		
trans-1,3-Dichloropropene	8260B	ug/l			5	U			5	U		
Trichloroethene	8260B	ug/l			5	U			5	U		
Trichlorofluoromethane	8260B	ug/l			5	U			5	U		
Vanadium	6020	mg/l			0.00050	U			0.00050	U		
Vinyl Chloride	8260B	ug/l			5	U			5	U		
Zinc	6020	mg/l			0.0150	U			0.0150	U		
Zirconium	6010B	mg/l			0.0500	U			0.0500	U		
Zirconium	6020	mg/l										

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-113011		EB-SA6-SB-120111S		EB-SA6-SB-120111	
		Location:	EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	11/30/2011		12/01/2011		12/01/2011	
		Sample Type	EB		EB Split		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l			1.0	U	5	U
1,1,1-Trichloroethane	8260B	ug/l			1.0	U	5	U
1,1,2,2-Tetrachloroethane	8260B	ug/l			1.0	U	5	U
1,1,2-Trichloroethane	8260B	ug/l			1.0	U	5	U
1,1-Dichloroethane	8260B	ug/l			1.0	U	5	U
1,1-Dichloroethene	8260B	ug/l			1.0	U	5	U
1,1-Dichloropropene	8260B	ug/l			1.0	U	5	U
1,2,3,4,6,7,8-HpCDD	1613B	pg/l					11.3	U
1,2,3,4,6,7,8-HpCDF	1613B	pg/l					11.3	U
1,2,3,4,7,8,9-HpCDF	1613B	pg/l					11.3	U
1,2,3,4,7,8-HxCDD	1613B	pg/l					11.3	U
1,2,3,4,7,8-HxCDF	1613B	pg/l					11.3	U
1,2,3,6,7,8-HxCDD	1613B	pg/l					11.3	U
1,2,3,6,7,8-HxCDF	1613B	pg/l					11.3	U
1,2,3,7,8,9-HxCDD	1613B	pg/l					11.3	U
1,2,3,7,8,9-HxCDF	1613B	pg/l					11.3	U
1,2,3,7,8-PeCDD	1613B	pg/l					11.3	U
1,2,3,7,8-PeCDF	1613B	pg/l					11.3	U
1,2,3-Trichlorobenzene	8260B	ug/l			1.0	U	5	U
1,2,3-Trichloropropane	8260B	ug/l			2.0	U	5	U
1,2,4-Trichlorobenzene	8260B	ug/l			1.0	U	5	U
1,2,4-Trichlorobenzene	8270C	ug/l			11	U	5	U
1,2,4-Trimethylbenzene	8260B	ug/l			1.0	U	5	U
1,2-Dibromo-3-chloropropane	8260B	ug/l			2.0	U	5	U
1,2-Dibromoethane	8260B	ug/l			1.0	U	5	U
1,2-Dichlorobenzene	8260B	ug/l			1.0	U	5	U
1,2-Dichlorobenzene	8270C	ug/l			11	U	5	U
1,2-Dichloroethane	8260B	ug/l			1.0	U	5	U
1,2-Dichloropropane	8260B	ug/l			1.0	U	5	U
1,2-Diphenylhydrazine	8270C	ug/l			11	U	5	U
1,3,5-Trimethylbenzene	8260B	ug/l			1.0	U	5	U
1,3,5-Trinitrobenzene	8330A	ug/l			1.0	U	0.60	U
1,3-Dichlorobenzene	8260B	ug/l			1.0	U	5	U
1,3-Dichlorobenzene	8270C	ug/l			11	U	5	U
1,3-Dichloropropane	8260B	ug/l			1.0	U	5	U
1,4-Dichlorobenzene	8260B	ug/l			1.0	U	5	U
1,4-Dichlorobenzene	8270C	ug/l			11	U	5	U
1,4-Dioxane	8260B SIM	ug/l			4.0	U	2.0	U
1-Methylnaphthalene	8270C	ug/l			11	U		
1-Methylnaphthalene	8270C SIM	ug/l					0.051	U
2,2-Dichloropropane	8260B	ug/l			1.0	U	5	U
2,2-Dichlor-Propionic Acid	8151A	ug/l			0.80	U	1.3	U
2,3,4,6,7,8-HxCDF	1613B	pg/l					11.3	U
2,3,4,7,8-PeCDF	1613B	pg/l					11.3	U
2,3,7,8-TCDD	1613B	pg/l					2.25	U
2,3,7,8-TCDF	1613B	pg/l					2.25	U
2,4 DB	8151A	ug/l			0.80	U	1.1	U
2,4,5-T	8151A	ug/l			0.80	U	0.054	U
2,4,5-TP	8151A	ug/l			0.80	U	0.054	U
2,4,5-Trichlorophenol	8270C	ug/l			11	U	5	U
2,4,6-Trichlorophenol	8270C	ug/l			11	U	5	U
2,4,6-Trinitrotoluene	8330A	ug/l			1.0	U	0.60	U
2,4-D	8151A	ug/l			0.80	U	0.54	U
2,4-Diamino-6-nitrotoluene	8330A	ug/l			2.0	U	0.60	U
2,4-Dichlorophenol	8270C	ug/l			11	U	5	U
2,4-Dimethylphenol	8270C	ug/l			11	U	11	U
2,4-Dinitrophenol	8270C	ug/l			22	U	32	U
2,4-Dinitrotoluene	8270C	ug/l			11	U	5	U
2,4-Dinitrotoluene	8330A	ug/l			1.0	U	0.60	U
2,6-Diamino-4-nitrotoluene	8330A	ug/l			2.0	U	0.60	U
2,6-Dinitrotoluene	8270C	ug/l			11	U	5	U
2,6-Dinitrotoluene	8330A	ug/l			1.0	U	0.60	U
2-Amino-4,6-Dinitrotoluene	8330A	ug/l			1.0	U	0.60	U
2-Butanone	8260B	ug/l			10	U	10	U
2-butoxy-Ethanol	8270C	ug/l			11	U		
2-Chloroethyl Vinyl Ether	8260B	ug/l			2.0	U	10	U
2-Chloronaphthalene	8270C	ug/l			11	U	5	U
2-Chlorophenol	8270C	ug/l			11	U	5	U
2-Chlorotoluene	8260B	ug/l			1.0	U	5	U
2-Hexanone	8260B	ug/l			10	U	10	U
2-Methylnaphthalene	8270C	ug/l			11	U		
2-Methylnaphthalene	8270C SIM	ug/l					0.051	U
2-Methylphenol	8270C	ug/l			11	U	5	U
2-Nitroaniline	8270C	ug/l			11	U	5	U
2-Nitrophenol	8270C	ug/l			11	U	5	U
2-Nitrotoluene	8330A	ug/l			1.0	U	0.60	U
2-phenoxy-Ethanol	8270C	ug/l			11	U		
2-Propanol	8015B	ug/l			1000	U	1000	U
3,3`-Dichlorobenzidine	8270C	ug/l			11	U	5	U
3,5-Dimethylphenol	8270C	ug/l			22	U	11	U
3-Nitroaniline	8270C	ug/l			11	U	5	U
3-Nitrotoluene	8330A	ug/l			1.0	U	1.2	U
4,4'-DDD	8081A	ug/l			0.11	U	0.024	U
4,4'-DDE	8081A	ug/l			0.11	U	0.024	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-113011		EB-SA6-SB-120111S		EB-SA6-SB-120111	
		Location:	EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	11/30/2011		12/01/2011		12/01/2011	
		Sample Type	EB		EB Split		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
4,4'-DDT	8081A	ug/l			0.11	UJ	0.024	U
4,6-Dinitro-2-Methylphenol	8270C	ug/l			22	U	16	U
4-Amino-2,6-Dinitrotoluene	8330A	ug/l			1.0	U	0.60	U
4-Bromophenyl Phenyl Ether	8270C	ug/l			11	U	5	U
4-Chloro-3-Methylphenol	8270C	ug/l			11	U	5	U
4-Chloroaniline	8270C	ug/l			11	U	5	U
4-Chlorophenyl Phenylether	8270C	ug/l			11	U	5	U
4-Chlorotoluene	8260B	ug/l			1.0	U	5	U
4-Methyl-2-Pentanone	8260B	ug/l			10	U	10	U
4-Methylphenol	8270C	ug/l			11	U	5	U
4-Nitroaniline	8270C	ug/l			11	U	5	U
4-Nitrophenol	8270C	ug/l			22	U	32	U
4-Nitrotoluene	8330A	ug/l			1.0	U	1.2	U
Acenaphthene	8270C	ug/l			11	U		
Acenaphthene	8270C SIM	ug/l					0.051	U
Acenaphthylene	8270C	ug/l			11	U		
Acenaphthylene	8270C SIM	ug/l					0.051	U
Acetone	8260B	ug/l			10	U	20	U
Aldrin	8081A	ug/l			0.11	U	0.012	U
Alpha-BHC	8081A	ug/l			0.11	U	0.012	U
Aluminum	6010B	mg/l					0.200	U
Aluminum	6020	mg/l			0.0254	J		
Aniline	8270C	ug/l			22	U	5	U
Anthracene	8270C	ug/l			11	U		
Anthracene	8270C SIM	ug/l					0.051	U
Antimony	6020	mg/l			0.00100	U	0.0010	U
Aroclor 1016	8082	ug/l			1.1	U	0.59	U
Aroclor 1221	8082	ug/l			1.1	U	0.59	U
Aroclor 1232	8082	ug/l			1.1	U	0.59	U
Aroclor 1242	8082	ug/l			1.1	U	0.59	U
Aroclor 1248	8082	ug/l			1.1	U	0.59	U
Aroclor 1254	8082	ug/l			1.1	U	0.59	U
Aroclor 1260	8082	ug/l			1.1	U	0.59	U
Aroclor 1262	8082	ug/l			1.1	U	0.59	U
Aroclor 1268	8082	ug/l			1.1	U	0.59	U
Aroclor 5432	8082	ug/l			2.2	U	0.59	U
Aroclor 5442	8082	ug/l			2.2	U	0.59	U
Aroclor 5460	8082	ug/l			2.2	U	0.59	U
Arsenic	6020	mg/l			0.00100	U	0.0020	U
Barium	6020	mg/l			0.00100	U	0.0020	U
Benzene	8260B	ug/l			1.0	U	5	U
Benzidine	8270C	ug/l			54	U	65	U
Benzo(a)anthracene	8270C	ug/l			11	U		
Benzo(a)anthracene	8270C SIM	ug/l					0.051	U
Benzo(a)pyrene	8270C	ug/l			11	U		
Benzo(a)pyrene	8270C SIM	ug/l					0.051	U
Benzo(b)fluoranthene	8270C	ug/l			11	U		
Benzo(b)fluoranthene	8270C SIM	ug/l					0.051	U
Benzo(g,h,i)perylene	8270C	ug/l			11	U		
Benzo(g,h,i)perylene	8270C SIM	ug/l					0.051	U
Benzo(k)fluoranthene	8270C	ug/l			11	U		
Benzo(k)fluoranthene	8270C SIM	ug/l					0.051	U
Benzoic Acid	8270C	ug/l			43	U	16	U
Benzyl Alcohol	8270C	ug/l			11	U	16	U
Beryllium	6020	mg/l			0.00100	U	0.00050	U
Beta-BHC	8081A	ug/l			0.11	U	0.012	U
Bis(2-Chloroethoxy) methane	8270C	ug/l			11	U	5	U
Bis(2-Chloroethyl) ether	8270C	ug/l			11	U	5	U
bis(2-Chloroisopropyl) ether	8270C	ug/l			11	U	5	U
Bis(2-Ethylhexyl) phthalate	8270C	ug/l			22	U		
Bis(2-Ethylhexyl) phthalate	8270C SIM	ug/l					0.075	J
Boron	6010B	mg/l					0.0043	J
Boron	6020	mg/l			0.0100	U		
Bromobenzene	8260B	ug/l			1.0	U	5	U
Bromochloromethane	8260B	ug/l			1.0	U	5	U
Bromodichloromethane	8260B	ug/l			1.0	U	5	U
Bromoform	8260B	ug/l			1.0	U	5	U
Bromomethane	8260B	ug/l			1.0	U	5	U
Butylbenzylphthalate	8270C	ug/l			11	U		
Butylbenzylphthalate	8270C SIM	ug/l					1.0	U
Cadmium	6020	mg/l			0.00100	U	0.00050	U
Calcium	6010B	mg/l					0.200	U
Calcium	6020	mg/l			0.100	U		
Carbazole	8270C	ug/l			11	U	5	U
Carbon tetrachloride	8260B	ug/l			1.0	U	5	U
Chlordane	8081A	ug/l					0.59	U
Chlordane (technical)	8081A	ug/l			1.1	U		
Chlorobenzene	8260B	ug/l			1.0	U	5	U
Chloroethane	8260B	ug/l			1.0	U	5	U
Chloroform	8260B	ug/l			1.0	U	5	U
Chloromethane	8260B	ug/l			1.0	U	5	U
Chlorotrifluoroethene	8260B	ug/l			1.0	U	5	U
Chromium	6020	mg/l			0.00100	U	0.0020	U
Chromium VI	7199	ug/l			0.200	U	10.0	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-113011		EB-SA6-SB-120111S		EB-SA6-SB-120111	
		Location:	EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	11/30/2011		12/01/2011		12/01/2011	
		Sample Type	EB		EB Split		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Chrysene	8270C	ug/l			11	U		
Chrysene	8270C SIM	ug/l					0.051	U
cis-1,2-Dichloroethene	8260B	ug/l			1.0	U	5	U
cis-1,3-Dichloropropene	8260B	ug/l			1.0	U	5	U
Cobalt	6020	mg/l			0.00100	U	0.00050	U
Copper	6020	mg/l			0.000858	J	0.00050	J
Cyanide	9012B	mg/l					0.010	U
Cyanide	9014	mg/l			0.0100	U		
Delta-BHC	8081A	ug/l			0.11	U	0.012	U
Dibenzo(a,h)anthracene	8270C	ug/l			11	U		
Dibenzo(a,h)anthracene	8270C SIM	ug/l					0.051	U
Dibenzofuran	8270C	ug/l			11	U	5	U
Dibromochloromethane	8260B	ug/l			1.0	U	5	U
Dibromomethane	8260B	ug/l			1.0	U	5	U
Dicamba	8151A	ug/l			0.80	U	0.32	U
Dichlorodifluoromethane	8260B	ug/l			1.0	U	5	U
Dichlorprop	8151A	ug/l			0.80	U	0.54	U
Dieldrin	8081A	ug/l			0.11	U	0.024	U
Diethylene Glycol	8015M	mg/l			10	U	100	U
Diethylphthalate	8270C	ug/l			11	U		
Diethylphthalate	8270C SIM	ug/l					0.077	J
Dimethylphthalate	8270C	ug/l			11	U		
Dimethylphthalate	8270C SIM	ug/l					1.0	U
Di-n-Butylphthalate	8270C	ug/l			11	U		
Di-n-Butylphthalate	8270C SIM	ug/l					0.28	J
Dinitrobutyl Phenol	8151A	ug/l			0.80	U	0.54	U
Di-N-Octyl Phthalate	8270C	ug/l			11	U		
Di-N-Octyl Phthalate	8270C SIM	ug/l					1.0	U
EFH (C12-C14)	8015B EFH	mg/l			0.50	U		
EFH (C12-C14)	8015M	mg/l					0.68	U
EFH (C15-C20)	8015B EFH	mg/l			0.50	U		
EFH (C15-C20)	8015M	mg/l					0.68	U
EFH (C21-C30)	8015B EFH	mg/l			0.50	U		
EFH (C21-C30)	8015M	mg/l					0.68	U
EFH (C30-C40)	8015B EFH	mg/l			0.50	U		
EFH (C30-C40)	8015M	mg/l					0.68	U
EFH (C8-C11)	8015B EFH	mg/l			0.50	U		
EFH (C8-C11)	8015M	mg/l					0.68	U
Endosulfan I	8081A	ug/l			0.11	U	0.012	U
Endosulfan II	8081A	ug/l			0.11	U	0.024	U
Endosulfan Sulfate	8081A	ug/l			0.11	U	0.024	U
Endrin	8081A	ug/l			0.11	U	0.024	U
Endrin Aldehyde	8081A	ug/l			0.11	U	0.12	U
Endrin Ketone	8081A	ug/l			0.11	U	0.024	U
Ethanol	8015B	ug/l			1000	U	1000	U
Ethylbenzene	8260B	ug/l			1.0	U	5	U
Ethylene Glycol	8015M	mg/l			10	U	100	U
Fluoranthene	8270C	ug/l			11	UJ		
Fluoranthene	8270C SIM	ug/l					0.051	U
Fluorene	8270C	ug/l			11	U		
Fluorene	8270C SIM	ug/l					0.051	U
Fluoride	300.0	mg/l			0.100	U	0.10	U
Formaldehyde	8315A	ug/l					50	U
Freon 113	8260B	ug/l			1.0	U	10	U
Freon 113a	8260B	ug/l			1.0	U	5	U
Gamma-BHC (Lindane)	8081A	ug/l			0.11	U	0.012	U
GRO (C5-C12)	8015B GRO	ug/l			29	J		
GRO (C5-C12)	8015M	ug/l					50	U
Heptachlor	8081A	ug/l			0.11	U	0.012	U
Heptachlor Epoxide	8081A	ug/l			0.11	U	0.012	U
Hexachlorobenzene	8270C	ug/l			11	U	5	U
Hexachlorobutadiene	8260B	ug/l			1.0	U	5	U
Hexachlorobutadiene	8270C	ug/l			11	U	5	U
Hexachlorocyclopentadiene	8270C	ug/l			22	U	16	U
Hexachloroethane	8270C	ug/l			11	U	5	U
HMX	8330A	ug/l			1.0	U	2.0	U
Indeno(1,2,3-Cd)Pyrene	8270C	ug/l			11	U		
Indeno(1,2,3-Cd)Pyrene	8270C SIM	ug/l					0.051	U
Iron	6010B	mg/l					0.200	U
Iron	6020	mg/l			0.100	U		
Isophorone	8270C	ug/l			11	U	5	U
Isopropylbenzene	8260B	ug/l			1.0	U	5	U
Isopropyltoluene	8260B	ug/l			1.0	U	5	U
Lead	6020	mg/l			0.00100	U	0.0010	U
Lithium	6010B	mg/l					0.0200	U
Lithium	6020	mg/l			0.00200	U		
m,p-Xylene	8260B	ug/l			2.0	U	5	U
Magnesium	6010B	mg/l					0.100	U
Magnesium	6020	mg/l			0.100	U		
Manganese	6010B	mg/l					0.0050	U
Manganese	6020	mg/l			0.00100	U		
MCPA	8151A	ug/l			100	U	1100	U
MCPP	8151A	ug/l			100	U	210	U
m-Dinitrobenzene	8330A	ug/l			1.0	U	0.60	U

Table C-3 - Subarea 6 Equipment Rinsate Blank Results

		Sample Name:	EB-SA6-SB-113011		EB-SA6-SB-120111S		EB-SA6-SB-120111	
		Location:	EB-SA6		EB-SA6		EB-SA6	
		Sample Date:	11/30/2011		12/01/2011		12/01/2011	
		Sample Type	EB		EB Split		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
Mercury	7470A	mg/l			0.000500	U	0.00020	U
Methanol	8015B	ug/l			1000	U	1000	U
Methoxychlor	8081A	ug/l			1.1	UJ	0.12	U
Methyl tert-Butyl Ether	8260B	ug/l			1.0	U	5	U
Methylene chloride	8260B	ug/l			1.4		5	U
Mirex	8081A	ug/l			0.11	U	0.30	U
Molybdenum	6020	mg/l			0.00200	U	0.00050	U
m-Terphenyl	8015B	mg/l					0.24	U
Naphthalene	8270C	ug/l			11	U		
Naphthalene	8270C SIM	ug/l					0.037	J
N-Butylbenzene	8260B	ug/l			1.0	U	5	U
Nickel	6020	mg/l			0.00100	U	0.0020	U
Nitrate	300.0	mg/l			0.284	J	0.10	U
Nitrobenzene	8270C	ug/l			11	U	5	U
Nitrobenzene	8330A	ug/l			1.0	U	0.60	U
Nitroglycerin	8330A	ug/l					15	U
Nitroglycerin	8332	ug/l			250	U		
N-Nitrosodimethylamine	1625C	ng/l	2.65	J			0.954	J
N-Nitrosodimethylamine	8270C SIM	ug/l					0.051	U
N-Nitroso-Di-N-Propylamine	8270C	ug/l			11	U	5	U
N-Nitrosodiphenylamine	8270C	ug/l			11	U	5	U
N-Propylbenzene	8260B	ug/l			1.0	U	5	U
OCDD	1613B	pg/l					22.5	U
OCDF	1613B	pg/l					22.5	U
o-Terphenyl	8015B	mg/l					0.24	U
o-Xylene	8260B	ug/l			1.0	U	5	U
Pentachlorophenol	8270C	ug/l			22	U	16	U
Perchlorate	314.0	ug/l			2.00	U	2.0	U
PETN	8330A	ug/l					18	U
PETN	8332	ug/l			250	U		
pH	9040B	pH unit					5.8	
pH	9040C	pH unit			5.53			
Phenanthrene	8270C	ug/l			11	U		
Phenanthrene	8270C SIM	ug/l					0.051	U
Phenol	8270C	ug/l			11	U	5	U
Phosphorus	6010B	mg/l					0.100	U
Phosphorus	6020	mg/l			0.0500	U		
Potassium	6010B	mg/l					0.500	U
Potassium	6020	mg/l			0.100	U		
Propylene glycol	8015M	mg/l			10	U	100	UJ
p-Terphenyl	8015B	mg/l					0.24	U
Pyrene	8270C	ug/l			11	U		
Pyrene	8270C SIM	ug/l					0.051	U
RDX	8330A	ug/l			1.0	U	1.1	
sec-Butylbenzene	8260B	ug/l			1.0	U	5	U
Selenium	6020	mg/l			0.00100	U	0.0020	U
Silver	6020	mg/l			0.00100	U	0.00050	U
Sodium	6010B	mg/l					1.00	U
Sodium	6020	mg/l			0.100	U		
Strontium	6010B	mg/l					0.00045	J
Strontium	6020	mg/l			0.00200	U		
Styrene	8260B	ug/l			1.0	U	5	U
tert-Butylbenzene	8260B	ug/l			1.0	U	5	U
Tetrachloroethene	8260B	ug/l			1.0	U	5	U
Tetralin	8270C	ug/l			11	U	5	U
Tetryl	8330A	ug/l			1.0	U	0.60	U
Thallium	6020	mg/l			0.00100	U	0.00050	U
Tin	6010B	mg/l					0.0200	U
Tin	6020	mg/l			0.00100	U		
Titanium	6010B	mg/l					0.0100	U
Titanium	6020	mg/l			0.00200	U		
Toluene	8260B	ug/l			1.0	U	5	U
Toxaphene	8081A	ug/l			2.2	U	3.5	U
trans-1,2-Dichloroethene	8260B	ug/l			1.0	U	5	U
trans-1,3-Dichloropropene	8260B	ug/l			1.0	U	5	U
Trichloroethene	8260B	ug/l			1.0	U	5	U
Trichlorofluoromethane	8260B	ug/l			1.0	U	5	U
Vanadium	6020	mg/l			0.00100	U	0.00050	U
Vinyl Chloride	8260B	ug/l			1.0	U	5	U
Zinc	6020	mg/l			0.0200	U	0.0150	U
Zirconium	6010B	mg/l					0.0500	U
Zirconium	6020	mg/l			0.00500	U		

ug/L - microgram per liter
mg/L - milligram per liter
ng/L - nanogram per liter
pg/L - picogram per liter
U - Compound not detected above the reporting limit
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM. The validators used the value with the lowest detection limit for validation purposes

Table C-4 - Subarea 3 Trip Blanks

Sample Name:		TB-101111		TB-101211		TB-101311		TB-101411		TB-110711	
Sample Date:		10/11/2011		10/12/2011		10/13/2011		10/14/2011		11/07/2011	
Sample Type		TB		TB		TB		TB		TB	
Analyte	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
GRO (C5-C12)	ug/l	50	U	50	U	50	U			50	U
N-Nitrosodimethylamine	ng/kg	33.1	U	33.3	U	33.2	U	33.3	U	33.3	U
N-Nitrosodimethylamine	ng/l	1.16	UJ	1.03	UJ	1.23	U	3.99	U	0.956	U
Percent Moisture	%	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-5 - Subarea 6 Trip Blank Results

		Sample Name:	TB-070911		TB-071211		TB-071311		TB-071411		TB-071911		TB-072011		TB-072111		TB-072211		TB-072511		TB-072611		TB-072711		TB-072811	
		Sample Date:	07/11/2011		07/12/2011		07/13/2011		07/14/2011		07/19/2011		07/20/2011		07/21/2011		07/22/2011		07/25/2011		07/26/2011		07/27/2011		07/28/2011	
		Sample Type	TB		TB		TB		TB		TB		TB		TB		TB		TB		TB		TB		TB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,1,1-Trichloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,1,2,2-Tetrachloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,1,2-Trichloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,1-Dichloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,1-Dichloroethene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,1-Dichloropropene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2,3-Trichlorobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2,3-Trichloropropane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2,4-Trichlorobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2,4-Trimethylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2-Dibromo-3-chloropropane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2-Dibromoethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2-Dichlorobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2-Dichloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,2-Dichloropropane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,3,5-Trimethylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,3-Dichlorobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,3-Dichloropropane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,4-Dichlorobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
1,4-Dioxane	8260B SIM	ug/l	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U			2.0	U						
2,2-Dichloropropane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
2-Butanone	8260B	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U			10	U						
2-Chloroethyl Vinyl Ether	8260B	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U			10	U						
2-Chlorotoluene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
2-Hexanone	8260B	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U			10	U						
4-Chlorotoluene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
4-Methyl-2-Pentanone	8260B	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U			10	U						
Acetone	8260B	ug/l	20	U	20	U	20	UJ	20	U	20	U	20	U	20	U			20	U						
Benzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Bromobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Bromochloromethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Bromodichloromethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Bromoform	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Bromomethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Carbon tetrachloride	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Chlorobenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Chloroethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Chloroform	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Chloromethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Chlorotrifluoroethene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
cis-1,2-Dichloroethene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
cis-1,3-Dichloropropene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Dibromochloromethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Dibromomethane	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Dichlorodifluoromethane	8260B	ug/l	5	U	5	U	5	UJ	5	U	5	U	5	U	5	U			5	U						
Ethylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Freon 113	8260B	ug/l	10	U	10	U	10	U	10	U	10	U	10	U	10	U			10	U						
Freon 113a	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	UJ						
GRO (C5-C12)	8015B GRO	ug/l																								
GRO (C5-C12)	8015M	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Hexachlorobutadiene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Isopropylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Isopropyltoluene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
m,p-Xylene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Methyl tert-Butyl Ether	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Methylene chloride	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
N-Butylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
N-Nitrosodimethylamine	1625C	ng/kg																								
N-Nitrosodimethylamine	1625C	ng/l																								
N-Propylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
o-Xylene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Percent Moisture	160.3M	%																								
sec-Butylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Styrene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
tert-Butylbenzene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Tetrachloroethene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Toluene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
trans-1,2-Dichloroethene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
trans-1,3-Dichloropropene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Trichloroethene	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						
Trichlorofluoromethane	8260B	ug/l	5	U	5	U	5	UJ	5	U	5	U	5	U	5	U			5	U						
Vinyl Chloride	8260B	ug/l	5	U	5	U	5	U	5	U	5	U	5	U	5	U			5	U						

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-5 - Subarea 6 Trip Blank Results

		Sample Name:	TB-072911		TB-080111		TB-080211		TB-080511		TB-080811		TB-080911		TB-081111		TB-081211		TB-081511		TB-081611		TB-081711		TB-081811	
		Sample Date:	07/29/2011		08/01/2011		08/02/2011		08/05/2011		08/08/2011		08/09/2011		08/11/2011		08/12/2011		08/15/2011		08/16/2011		08/17/2011		08/18/2011	
		Sample Type	TB		TB		TB		TB		TB		TB		TB		TB		TB		TB		TB		TB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l															5	U								
1,1,1-Trichloroethane	8260B	ug/l															5	U								
1,1,2,2-Tetrachloroethane	8260B	ug/l															5	U								
1,1,2-Trichloroethane	8260B	ug/l															5	U								
1,1-Dichloroethane	8260B	ug/l															5	U								
1,1-Dichloroethene	8260B	ug/l															5	U								
1,1-Dichloropropene	8260B	ug/l															5	U								
1,2,3-Trichlorobenzene	8260B	ug/l															5	U								
1,2,3-Trichloropropane	8260B	ug/l															5	U								
1,2,4-Trichlorobenzene	8260B	ug/l															5	U								
1,2,4-Trimethylbenzene	8260B	ug/l															5	U								
1,2-Dibromo-3-chloropropane	8260B	ug/l															5	U								
1,2-Dibromoethane	8260B	ug/l															5	U								
1,2-Dichlorobenzene	8260B	ug/l															5	U								
1,2-Dichloroethane	8260B	ug/l															5	U								
1,2-Dichloropropane	8260B	ug/l															5	U								
1,3,5-Trimethylbenzene	8260B	ug/l															5	U								
1,3-Dichlorobenzene	8260B	ug/l															5	U								
1,3-Dichloropropane	8260B	ug/l															5	U								
1,4-Dichlorobenzene	8260B	ug/l															5	U								
1,4-Dioxane	8260B SIM	ug/l															2.0	U								
2,2-Dichloropropane	8260B	ug/l															5	U								
2-Butanone	8260B	ug/l															10	U								
2-Chloroethyl Vinyl Ether	8260B	ug/l															10	U								
2-Chlorotoluene	8260B	ug/l															5	U								
2-Hexanone	8260B	ug/l															10	U								
4-Chlorotoluene	8260B	ug/l															5	U								
4-Methyl-2-Pentanone	8260B	ug/l															10	U								
Acetone	8260B	ug/l															20	U								
Benzene	8260B	ug/l															5	U								
Bromobenzene	8260B	ug/l															5	U								
Bromochloromethane	8260B	ug/l															5	U								
Bromodichloromethane	8260B	ug/l															5	U								
Bromoform	8260B	ug/l															5	U								
Bromomethane	8260B	ug/l															5	U								
Carbon tetrachloride	8260B	ug/l															5	U								
Chlorobenzene	8260B	ug/l															5	U								
Chloroethane	8260B	ug/l															5	U								
Chloroform	8260B	ug/l															5	U								
Chloromethane	8260B	ug/l															5	U								
Chlorotrifluoroethene	8260B	ug/l															5	U								
cis-1,2-Dichloroethene	8260B	ug/l															5	U								
cis-1,3-Dichloropropene	8260B	ug/l															5	U								
Dibromochloromethane	8260B	ug/l															5	U								
Dibromomethane	8260B	ug/l															5	U								
Dichlorodifluoromethane	8260B	ug/l															5	U								
Ethylbenzene	8260B	ug/l															5	U								
Freon 113	8260B	ug/l															10	U								
Freon 113a	8260B	ug/l															5	U								
GRO (C5-C12)	8015B GRO	ug/l																								
GRO (C5-C12)	8015M	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Hexachlorobutadiene	8260B	ug/l															5	U								
Isopropylbenzene	8260B	ug/l															5	U								
Isopropyltoluene	8260B	ug/l															5	U								
m,p-Xylene	8260B	ug/l															5	U								
Methyl tert-Butyl Ether	8260B	ug/l															5	U								
Methylene chloride	8260B	ug/l															5	U								
N-Butylbenzene	8260B	ug/l															5	U								
N-Nitrosodimethylamine	1625C	ng/kg																								
N-Nitrosodimethylamine	1625C	ng/l																								
N-Propylbenzene	8260B	ug/l															5	U								
o-Xylene	8260B	ug/l															5	U								
Percent Moisture	160.3M	%																								
sec-Butylbenzene	8260B	ug/l															5	U								
Styrene	8260B	ug/l															5	U								
tert-Butylbenzene	8260B	ug/l															5	U								
Tetrachloroethene	8260B	ug/l															5	U								
Toluene	8260B	ug/l															5	U								
trans-1,2-Dichloroethene	8260B	ug/l															5	U								
trans-1,3-Dichloropropene	8260B	ug/l															5	U								
Trichloroethene	8260B	ug/l															5	U								
Trichlorofluoromethane	8260B	ug/l															5	U								
Vinyl Chloride	8260B	ug/l															5	U								

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-5 - Subarea 6 Trip Blank Results

		Sample Name:	TB-081911		TB-082211		TB-082311		TB-082411		TB-082511		TB-082611		TB-082911		TB-083011		TB-083111		TB-090111		TB-090611		TB-090711	
		Sample Date:	08/19/2011		08/22/2011		08/23/2011		08/24/2011		08/25/2011		08/26/2011		08/29/2011		08/30/2011		08/31/2011		09/01/2011		09/06/2011		09/07/2011	
		Sample Type	TB		TB		TB		TB		TB		TB		TB		TB		TB		TB		TB		TB	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l			5	U	5	U																		
1,1,1-Trichloroethane	8260B	ug/l			5	U	5	U																		
1,1,2,2-Tetrachloroethane	8260B	ug/l			5	U	5	U																		
1,1,2-Trichloroethane	8260B	ug/l			5	U	5	U																		
1,1-Dichloroethane	8260B	ug/l			5	U	5	U																		
1,1-Dichloroethene	8260B	ug/l			5	U	5	U																		
1,1-Dichloropropene	8260B	ug/l			5	U	5	U																		
1,2,3-Trichlorobenzene	8260B	ug/l			5	U	5	U																		
1,2,3-Trichloropropane	8260B	ug/l			5	U	5	U																		
1,2,4-Trichlorobenzene	8260B	ug/l			5	U	5	U																		
1,2,4-Trimethylbenzene	8260B	ug/l			5	U	5	U																		
1,2-Dibromo-3-chloropropane	8260B	ug/l			5	U	5	U																		
1,2-Dibromoethane	8260B	ug/l			5	U	5	U																		
1,2-Dichlorobenzene	8260B	ug/l			5	U	5	U																		
1,2-Dichloroethane	8260B	ug/l			5	U	5	U																		
1,2-Dichloropropane	8260B	ug/l			5	U	5	U																		
1,3,5-Trimethylbenzene	8260B	ug/l			5	U	5	U																		
1,3-Dichlorobenzene	8260B	ug/l			5	U	5	U																		
1,3-Dichloropropane	8260B	ug/l			5	U	5	U																		
1,4-Dichlorobenzene	8260B	ug/l			5	U	5	U																		
1,4-Dioxane	8260B SIM	ug/l			2.0	U	2.0	U																		
2,2-Dichloropropane	8260B	ug/l			5	U	5	U																		
2-Butanone	8260B	ug/l			10	U	10	U																		
2-Chloroethyl Vinyl Ether	8260B	ug/l			10	U	10	U																		
2-Chlorotoluene	8260B	ug/l			5	U	5	U																		
2-Hexanone	8260B	ug/l			10	U	10	U																		
4-Chlorotoluene	8260B	ug/l			5	U	5	U																		
4-Methyl-2-Pentanone	8260B	ug/l			10	U	10	U																		
Acetone	8260B	ug/l			20	U	20	U																		
Benzene	8260B	ug/l			5	U	5	U																		
Bromobenzene	8260B	ug/l			5	U	5	U																		
Bromochloromethane	8260B	ug/l			5	U	5	U																		
Bromodichloromethane	8260B	ug/l			5	U	5	U																		
Bromoform	8260B	ug/l			5	U	5	U																		
Bromomethane	8260B	ug/l			5	U	5	U																		
Carbon tetrachloride	8260B	ug/l			5	U	5	U																		
Chlorobenzene	8260B	ug/l			5	U	5	U																		
Chloroethane	8260B	ug/l			5	U	5	U																		
Chloroform	8260B	ug/l			5	U	5	U																		
Chloromethane	8260B	ug/l			5	U	5	U																		
Chlorotrifluoroethene	8260B	ug/l			5	U	5	U																		
cis-1,2-Dichloroethene	8260B	ug/l			5	U	5	U																		
cis-1,3-Dichloropropene	8260B	ug/l			5	U	5	U																		
Dibromochloromethane	8260B	ug/l			5	U	5	U																		
Dibromomethane	8260B	ug/l			5	U	5	U																		
Dichlorodifluoromethane	8260B	ug/l			5	U	5	U																		
Ethylbenzene	8260B	ug/l			5	U	5	U																		
Freon 113	8260B	ug/l			10	U	10	U																		
Freon 113a	8260B	ug/l			5	U	5	U																		
GRO (C5-C12)	8015B GRO	ug/l																								
GRO (C5-C12)	8015M	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U
Hexachlorobutadiene	8260B	ug/l			5	U	5	U																		
Isopropylbenzene	8260B	ug/l			5	U	5	U																		
Isopropyltoluene	8260B	ug/l			5	U	5	U																		
m,p-Xylene	8260B	ug/l			5	U	5	U																		
Methyl tert-Butyl Ether	8260B	ug/l			5	U	5	U																		
Methylene chloride	8260B	ug/l			5	U	5	U																		
N-Butylbenzene	8260B	ug/l			5	U	5	U																		
N-Nitrosodimethylamine	1625C	ng/kg																								
N-Nitrosodimethylamine	1625C	ng/l																								
N-Propylbenzene	8260B	ug/l			5	U	5	U																		
o-Xylene	8260B	ug/l			5	U	5	U																		
Percent Moisture	160.3M	%																								
sec-Butylbenzene	8260B	ug/l			5	U	5	U																		
Styrene	8260B	ug/l			5	U	5	U																		
tert-Butylbenzene	8260B	ug/l			5	U	5	U																		
Tetrachloroethene	8260B	ug/l			5	U	5	U																		
Toluene	8260B	ug/l			5	U	5	U																		
trans-1,2-Dichloroethene	8260B	ug/l			5	U	5	U																		
trans-1,3-Dichloropropene	8260B	ug/l			5	U	5	U																		
Trichloroethene	8260B	ug/l			5	U	5	U																		
Trichlorofluoromethane	8260B	ug/l			5	U	5	U																		
Vinyl Chloride	8260B	ug/l			5	U	5	U																		

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-5 - Subarea 6 Trip Blank Results

		Sample Name:	TB-090911		TB-091211		TB-100311		TB-100411		TB-100511		TB-100611		TB-101111		TB-113011		TB-113011S	
		Sample Date:	09/09/2011		09/12/2011		10/03/2011		10/04/2011		10/05/2011		10/06/2011		10/11/2011		11/30/2011		11/30/2011	
		Sample Type	TB		TB		TB		TB		TB		TB		TB		TB		TB Split	
Analyte	Analytic Method	Units	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer	Concentration	Final Qualifer
1,1,1,2-Tetrachloroethane	8260B	ug/l															5	U	1.0	U
1,1,1-Trichloroethane	8260B	ug/l															5	U	1.0	U
1,1,2,2-Tetrachloroethane	8260B	ug/l															5	U	1.0	U
1,1,2-Trichloroethane	8260B	ug/l															5	U	1.0	U
1,1-Dichloroethane	8260B	ug/l															5	U	1.0	U
1,1-Dichloroethene	8260B	ug/l															5	U	1.0	U
1,1-Dichloropropene	8260B	ug/l															5	U	1.0	U
1,2,3-Trichlorobenzene	8260B	ug/l															5	U	1.0	U
1,2,3-Trichloropropane	8260B	ug/l															5	U	2.0	U
1,2,4-Trichlorobenzene	8260B	ug/l															5	U	1.0	U
1,2,4-Trimethylbenzene	8260B	ug/l															5	U	1.0	U
1,2-Dibromo-3-chloropropane	8260B	ug/l															5	U	2.0	U
1,2-Dibromoethane	8260B	ug/l															5	U	1.0	U
1,2-Dichlorobenzene	8260B	ug/l															5	U	1.0	U
1,2-Dichloroethane	8260B	ug/l															5	U	1.0	U
1,2-Dichloropropane	8260B	ug/l															5	U	1.0	U
1,3,5-Trimethylbenzene	8260B	ug/l															5	U	1.0	U
1,3-Dichlorobenzene	8260B	ug/l															5	U	1.0	U
1,3-Dichloropropane	8260B	ug/l															5	U	1.0	U
1,4-Dichlorobenzene	8260B	ug/l															5	U	1.0	U
1,4-Dioxane	8260B SIM	ug/l															2.0	U	4.0	U
2,2-Dichloropropane	8260B	ug/l															5	U	1.0	U
2-Butanone	8260B	ug/l															10	U	10	U
2-Chloroethyl Vinyl Ether	8260B	ug/l															10	U	2.0	U
2-Chlorotoluene	8260B	ug/l															5	U	1.0	U
2-Hexanone	8260B	ug/l															10	U	10	U
4-Chlorotoluene	8260B	ug/l															5	U	1.0	U
4-Methyl-2-Pentanone	8260B	ug/l															10	U	10	U
Acetone	8260B	ug/l															20	U	10	U
Benzene	8260B	ug/l															5	U	1.0	U
Bromobenzene	8260B	ug/l															5	U	1.0	U
Bromochloromethane	8260B	ug/l															5	U	1.0	U
Bromodichloromethane	8260B	ug/l															5	U	1.0	U
Bromoform	8260B	ug/l															5	U	1.0	U
Bromomethane	8260B	ug/l															5	U	1.0	U
Carbon tetrachloride	8260B	ug/l															5	U	1.0	U
Chlorobenzene	8260B	ug/l															5	U	1.0	U
Chloroethane	8260B	ug/l															5	U	1.0	U
Chloroform	8260B	ug/l															5	U	1.0	U
Chloromethane	8260B	ug/l															5	U	1.0	U
Chlorotrifluoroethene	8260B	ug/l															5	U	1.0	U
cis-1,2-Dichloroethene	8260B	ug/l															5	U	1.0	U
cis-1,3-Dichloropropene	8260B	ug/l															5	U	1.0	U
Dibromochloromethane	8260B	ug/l															5	U	1.0	U
Dibromomethane	8260B	ug/l															5	U	1.0	U
Dichlorodifluoromethane	8260B	ug/l															5	U	1.0	U
Ethylbenzene	8260B	ug/l															5	U	1.0	U
Freon 113	8260B	ug/l															10	U	1.0	U
Freon 113a	8260B	ug/l															5	U	1.0	U
GRO (C5-C12)	8015B GRO	ug/l																	50	U
GRO (C5-C12)	8015M	ug/l	50	U	50	U	50	U	50	U	50	U	50	U	50	U	50	U		
Hexachlorobutadiene	8260B	ug/l															5	U	1.0	U
Isopropylbenzene	8260B	ug/l															5	U	1.0	U
Isopropyltoluene	8260B	ug/l															5	U	1.0	U
m,p-Xylene	8260B	ug/l															5	U	2.0	U
Methyl tert-Butyl Ether	8260B	ug/l															5	U	1.0	U
Methylene chloride	8260B	ug/l															5	U	1.0	U
N-Butylbenzene	8260B	ug/l															5	U	1.0	U
N-Nitrosodimethylamine	1625C	ng/kg					33.3	U	33.0	U	330	U	33.0	U	33.1	U	33.3	U		
N-Nitrosodimethylamine	1625C	ng/l					1.01	U	0.985	U	1.01	U	0.989	U	1.16	UJ	0.964	UJ		
N-Propylbenzene	8260B	ug/l															5	U	1.0	U
o-Xylene	8260B	ug/l															5	U	1.0	U
Percent Moisture	160.3M	%							0.50	U	0.50	U	0.50	U	0.50	U	0.50	U		
sec-Butylbenzene	8260B	ug/l															5	U	1.0	U
Styrene	8260B	ug/l															5	U	1.0	U
tert-Butylbenzene	8260B	ug/l															5	U	1.0	U
Tetrachloroethene	8260B	ug/l															5	U	1.0	U
Toluene	8260B	ug/l															5	U	1.0	U
trans-1,2-Dichloroethene	8260B	ug/l															5	U	1.0	U
trans-1,3-Dichloropropene	8260B	ug/l															5	U	1.0	U
Trichloroethene	8260B	ug/l															5	U	1.0	U
Trichlorofluoromethane	8260B	ug/l															5	U	1.0	U
Vinyl Chloride	8260B	ug/l															5	U	1.0	U

ug/L - microgram per liter

U - Compound not detected above the reporting limit

Table C-6 - Subarea 3 Field Duplicate Results

				Location	SL-011-SA3		SL-011-SA3		RPD
				Sample Name:	DUP01-SA3-QC-101211		SL-011-SA3-SB-4.0-5.0		
				Sample Date	10/12/2011		10/12/2011		
				Start Depth:	4		4		
				End Depth:	5		5		
				Area:	SA3		SA3		
				Matrix:	SO		SO		
				Sample Type:	FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit					
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	10500		9830		6.59
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.201	UJ	0.202	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	3.83	J	6.41	J	50.39
Inorganic	Barium	7440-39-3	6020	mg/kg	63.0	J	85.2	J	29.96
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.471		0.689		37.59
Inorganic	Boron	7440-42-8	6010B	mg/kg	3.21	J	3.50	J	8.64
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.0958	J	0.127	J	28.01
Inorganic	Calcium	7440-70-2	6010B	mg/kg	7000		5160		30.26
Inorganic	Chromium	7440-47-3	6020	mg/kg	12.6	J	17.8	J	34.21
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.0	U	1.0	U	--
Inorganic	Cobalt	7440-48-4	6020	mg/kg	4.87	J	6.94	J	35.06
Inorganic	Copper	7440-50-8	6020	mg/kg	6.91	J	9.20	J	28.43
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.50	U	0.51	U	--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.2	J	2.1	J	4.65
Inorganic	Iron	7439-89-6	6010B	mg/kg	19400		17400		10.87
Inorganic	Lead	7439-92-1	6020	mg/kg	5.20	J	8.25	J	45.35
Inorganic	Lithium	7439-93-2	6010B	mg/kg	28.7		24.7		14.98
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	3920		3410		13.92
Inorganic	Manganese	7439-96-5	6010B	mg/kg	264		238		10.36
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0971	U	0.100	U	--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.363	J	0.290	J	22.36
Inorganic	Nickel	7440-02-0	6020	mg/kg	8.45	J	12.3	J	37.11
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	0.96	J	1.0	J	4.08
Inorganic	Percent Moisture	MOIST	160.3M	%	2.4		2.2		8.70
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	30.7	U	30.7	U	--
Inorganic	pH	pH	9045M	pH unit	8.65		8.55		1.16
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	291	J	289	J	0.69
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2320		1970		16.32
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.0591	J	0.167	J	95.44
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0334	J	0.0395	J	16.74
Inorganic	Sodium	7440-23-5	6010B	mg/kg	125		89.3	J	33.32
Inorganic	Strontium	7440-24-6	6010B	mg/kg	26.1		19.5		28.95
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.215		0.312		36.81
Inorganic	Tin	7440-31-5	6010B	mg/kg	9.95	U	9.93	U	--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1030		1080		4.74
Inorganic	Vanadium	7440-62-2	6020	mg/kg	26.0	J	35.2	J	30.07
Inorganic	Zinc	7440-66-6	6020	mg/kg	49.4	J	68.2	J	31.97
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.91	J	2.86	J	1.73
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	120	U	120	U	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	120	U	120	U	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	240	U	250	U	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	120	U	120	U	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	240	U	250	U	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	120	U	120	U	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	120	U	120	U	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	120	U	120	U	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	510	U	510	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	120	U	120	U	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	120	U	120	U	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	120	U	120	U	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	10	U	10	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	510	U	510	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	10	U	10	UJ	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1500	U	1500	U	--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	300	U	310	U	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	120	U	120	U	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	510	U	510	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.6	U	3.6	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	120	U	120	U	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2400	U	2500	U	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.6	U	3.6	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2400	U	2500	U	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	10	U	10	UJ	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.6	U	3.6	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg	120	U	120	U	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	120	U	120	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	1.37	J	5.07	U	200.00
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.05	U	5.07	U	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.05	U	5.07	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.05	UJ	5.07	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	0.431	J	5.07	UJ	200.00
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	0.161	J	0.106	J	41.20
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.151	J	5.07	UJ	200.00
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.05	U	5.07	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.05	UJ	5.07	UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.05	UJ	5.07	UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.05	U	5.07	U	--
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.05	UJ	5.07	UJ	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	0.572	J	0.288	J	66.05
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.01	U	1.01	U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0730	J	1.01	UJ	200.00
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.2	J	0.48	J	85.71
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.4	U	3.4	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.4	U	3.4	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.4	U	3.4	U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	11.1	J	5.84	J	62.10
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	1.02	J	10.1	U	200.00
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	170	U	170	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	170	U	170	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	170	U	170	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	170	U	170	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	170	U	170	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1000	U	1000	R	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	170	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	170	U	170	U	--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	340	U	340	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	170	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	510	UJ	510	UJ	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	170	U	170	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	510	U	510	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	510	U	510	U	--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3400	U	3400	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.7	UJ	0.78	J	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	0.88	J	0.73	J	18.63
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.7	U	1.7	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	510	U	510	R	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	510	U	510	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	170	U	170	U	--

Table C-6 - Subarea 3 Field Duplicate Results

					Location	SL-011-SA3		SL-011-SA3		RPD
					Sample Name:	DUP01-SA3-QC-101211		SL-011-SA3-SB-4.0-5.0		
					Sample Date	10/12/2011		10/12/2011		
					Start Depth:	4		4		
					End Depth:	5		5		
					Area:	SA3		SA3		
					Matrix:	SO		SO		
					Sample Type:	FD		N		
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg		170	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg		18	U	18	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg		18	U	18	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg		18	U	18	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg		18	U	18	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg		18	U	18	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg		18	U	18	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg		510	U	510	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg		170	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg		33.8	U	34.1	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg		170	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg		510	U	510	UJ	--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg		1.7	U	1.7	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg		170	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg		1.7	U	1.7	U	--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg		1.2	U	1.2	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg		0.48	J	0.45	J	6.45
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg		2.4		1.7	J	34.15
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg		6.5		5.1	J	24.14
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg		1.2	U	1.2	U	--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg		1.1	UJ	3.2	J	200.00

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples
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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-297-SA6		SL-297-SA6			SL-074-SA6		SL-074-SA6		
				Sample Name:	DUP01-SA6-QC-071111		SL-297-SA6-SS-0.0-0.5			DUP02-SA6-QC-071411		SL-074-SA6-SB-4.0-5.0		
				Sample Date	07/11/2011		07/11/2011			07/14/2011		07/14/2011		
				Start Depth:	0		0		RPD	4		4		RPD
				End Depth:	0.5		0.5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	9320		11200		18.32	11700		13000		10.53
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	1.35	J	1.29	J	4.55	0.246	J	0.256	J	3.98
Inorganic	Arsenic	7440-38-2	6020	mg/kg	4.82	J	8.24	J	52.37	8.85	J	6.29	J	33.82
Inorganic	Barium	7440-39-3	6020	mg/kg	69.9		75.2		7.31	79.8		83.2		4.17
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.320		0.418		26.56	0.580	J	1.08	J	60.24
Inorganic	Boron	7440-42-8	6010B	mg/kg	4.95	J	4.99	UJ	200.00	5.21	U	5.22	U	--
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	1.85	J	2.39	J	25.47	0.209	J	0.116	J	57.23
Inorganic	Calcium	7440-70-2	6010B	mg/kg	4740	J	6820	J	35.99	8060	J	4720	J	52.27
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	28.0	J	34.4	J	20.51	14.2	J	15.1	J	6.14
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	2.9		4.8		49.35	0.36	J	0.38	J	5.41
Inorganic	Cobalt	7440-48-4	6020	mg/kg	8.65		9.83		12.77	10.4	J	7.09	J	37.85
Inorganic	Copper	7440-50-8	6020	mg/kg	62.2	J	50.3	J	21.16	14.3	J	12.1	J	16.67
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--					--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.8		2.7	J	40.00	2.3		2.6		12.24
Inorganic	Iron	7439-89-6	6010B	mg/kg	24900	J	27800	J	11.01	32900	J	19500	J	51.15
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	84.8	J	78.3	J	7.97	9.86	J	8.68	J	12.73
Inorganic	Lithium	7439-93-2	6010B	mg/kg	14.6		17.1		15.77	17.6	J	9.4	J	60.74
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	3660		4420		18.81	5050		4220		17.91
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	267	J	336	J	22.89	266	J	164	J	47.44
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.332		0.413		21.74	2.45	J	0.647	J	116.44
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	7.74	J	5.63	J	31.56	0.733	J	0.886	J	18.90
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.3	J	17.5	J	20.13	11.2	J	10.6	J	5.50
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--					--
Inorganic	Percent Moisture	MOIST	160.3M	%	0.80		0.85		6.06	6.8		7.0		2.90
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	30.2	U	30.3	U	--	32.2	U	32.3	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	7.75		7.90		1.92	8.77		8.83		0.68
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	521	J	518	J	0.58	422		377		11.26
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2080		2520		19.13	2610		2330		11.34
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.376	J	0.319	J	16.40	0.129	J	0.172	J	28.57
Inorganic	Silver	7440-22-4	6020	mg/kg	0.129		0.197		41.72	0.0414	J	0.0372	J	10.69
Inorganic	Sodium	7440-23-5	6010B	mg/kg	158		193		19.94	316		306		3.22
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	26.0		30.6		16.25	32.6		29.6		9.65
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.150		0.193		25.07	0.192	J	0.244	J	23.85
Inorganic	Tin	7440-31-5	6010B	mg/kg	9.88	U	9.99	U	--	10.4	U	10.4	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	702		706		0.57	757		891		16.26
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	28.7	J	36.0	J	22.57	45.1	J	38.7	J	15.27
Inorganic	Zinc	7440-66-6	6020	mg/kg	611	J	796	J	26.30	61.3		56.7		7.80
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	4.22	J	4.88	J	14.51	5.21	U	5.22	U	--
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	500	U	500	U	--	540	U	540	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	10	U	10	UJ	--	11	U	11	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	500	U	500	U	--	540	U	540	R	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	10	U	10	UJ	--	11	U	11	UJ	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	160	J	500	UJ	200.00	540	U	540	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.5	UJ	3.5	R	--	3.8	U	3.8	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.5	UJ	3.5	R	--	3.8	U	3.8	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	10	U	10	UJ	--	11	U	11	UJ	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.5	UJ	3.5	R	--	3.8	U	3.8	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	3330		2850	J	15.53	312		423	J	30.20
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	419		354		16.82	32.2		43.9		30.75
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	49.0		41.6		16.34	3.12	J	4.56	J	37.50
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	14.0		12.0		15.38	3.90	J	2.19	J	56.16
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	33.5		30.7		8.72	1.32	J	2.66	J	67.34
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	84.3		70.9		17.27	7.58		9.65		24.03
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	20.7		17.7		15.63	0.948	J	1.46	J	42.52
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	31.9		27.6		14.45	2.93	J	3.80	J	25.85
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	6.47		5.90		9.22	0.283	J	0.662	J	80.21
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	6.57		7.47		12.82	2.93	J	4.06	J	32.33
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	51.0		33.6		41.13	0.407	J	0.380	J	6.86
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	37.9		31.1		19.71	1.44	J	2.53	J	54.91
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	34.2		28.7		17.49	0.942	J	1.31	J	32.68
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.936	J	0.939	J	0.32	0.341	J	0.299	J	13.13
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	11.5		11.8		2.58	0.715	J	0.905	J	23.46
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	0.70	J	2600	J	199.89	250	J	63	J	119.49
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.7	U	340	U	--	91	U	9.1	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.3	U	670	U	--	180	U	18	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.3	U	670	U	--	180	U	18	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.3	UJ	3300	J	200.00	210	J	85	J	84.75
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	66100		56700	J	15.31	6150	J	7280	J	16.83
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	848		736		14.14	98.8		132		28.77
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.1	U	9.1	U	--					--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	21	U	18	U	--					--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.53	UJ	0.62	J	200.00					--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.40	J	0.17	UJ	200.00					--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.6	U	3.6	U	--					--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	34	U	34	U	--					--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	41	J	34	UJ	200.00					--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	160		200		22.22					--
Pesticides	Aldrin	309-00-2	8081A	ug/kg	17	U	3.3	U	--					--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	17	U	3.3	U	--					--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	17	U	3.3	U	--					--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	340	U	69	U	--					--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	17	U	3.3	U	--					--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.2	U	1.2	R	--					--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	1.7	U	1.7	U	--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-297-SA6		SL-297-SA6			SL-074-SA6		SL-074-SA6		
				Sample Name:	DUP01-SA6-QC-071111		SL-297-SA6-SS-0.0-0.5			DUP02-SA6-QC-071411		SL-074-SA6-SB-4.0-5.0		
				Sample Date	07/11/2011		07/11/2011			07/14/2011		07/14/2011		
				Start Depth:	0		0		RPD	4		4		RPD
				End Depth:	0.5		0.5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	34	UJ	60	J	200.00					--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	2.4	R	2.4	R	--					--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	17	U	17	U	--					--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg	36	J	34	UJ	200.00					--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg	34	U	34	U	--					--
Pesticides	Endrin	72-20-8	8081A	ug/kg	34	U	34	U	--					--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg	12	J	34	UJ	200.00					--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg	34	U	34	U	--					--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	17	U	3.3	U	--					--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg	17	U	3.3	U	--					--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg	17	U	18	U	--					--
Pesticides	MCPA	94-74-6	8151A	ug/kg	430	U	300	U	--					--
Pesticides	MCPP	93-65-2	8151A	ug/kg	440	U	250	U	--					--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg	170	U	170	U	--					--
Pesticides	Mirex	2385-85-5	8081A	ug/kg	34	U	34	U	--					--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg	670	U	130	U	--					--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	170	U	170	U	--	180	UJ	180	UJ	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	170	U	170	U	--	180	UJ	180	UJ	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	170	U	170	U	--	180	UJ	180	UJ	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	17	U	17	U	--	8.9	U	1.8	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1000	U	1000	R	--	1100	U	1100	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	17	U	17	U	--	8.9	U	1.8	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	340	U	340	R	--	360	U	360	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	170	U	170	U	--	180	UJ	180	UJ	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	500	U	500	UJ	--	540	U	540	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	500	U	500	U	--	540	U	540	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg	89	J			--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg			11	J	--	8.9	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg	28	J			--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg			9.1	J	--	8.9	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	500	U	500	UJ	--	540	U	540	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg	210				--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg			47		--	3.4	J	1.8	UJ	200.00
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3400	U	3400	R	--	3600	U	3600	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg	930				--					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg			390		--	21	J	2.3	J	160.52
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg	2300				--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg			530	J	--	20	J	3.5	J	140.43
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg	2900				--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg			820		--	32	J	2.3	J	173.18
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg	2100				--					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg			540		--	7.0	J	0.82	J	158.06
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg	960				--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg			300		--	12	J	4.7	J	87.43
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	500	U	500	U	--	540	U	540	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	500	U	500	U	--	540	U	540	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg			160	J	--	360	U			--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	150	J			--			19	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg	170	U	170	U	--	180	U			--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg					--			7.9	J	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	150	J	27	J	138.98	180	UJ	180	UJ	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg	1200				--					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg			490		--	19	J	3.0	J	145.45
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg	490				--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg			95		--	8.9	U	1.8	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	21	J	170	UJ	200.00	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg	170	U			--	180	U			--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg					--			19	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg	170	U	170	U	--	180	UJ			--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg					--			19	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--	180	UJ			--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	00.0000000000	U	180	U	--			19	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg	170	U	170	U	--	180	U			--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg					--			19	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg	1700				--					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg			1100		--	33	J	3.6	J	160.66
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg	44	J			--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg			7.5	J	--	8.9	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	170	U	170	U	--	180	UJ	180	UJ	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	500	U	500	UJ	--	540	U	540	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	170	U	170	UJ	--	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg	1800				--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg			450		--	6.3	J	0.74	J	157.95
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	50	J	17	UJ	200.00	3.8	J	1.8	UJ	200.00
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg					--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	17	U	17	U	--	8.9	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	140	J	170	UJ	200.00	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	500	U	500	U	--	540	U	540	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg	840				--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg			310		--	8.5	J	1.3	J	146.94
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	170	U	170	U	--	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg	1500				--					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg			680		--	22	J	2.6	J	157.72
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg			170	U	--	180	U	180	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--	4.1	U	4.1	U	--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-297-SA6		SL-297-SA6			SL-074-SA6		SL-074-SA6		
				Sample Name:	DUP01-SA6-QC-071111		SL-297-SA6-SS-0.0-0.5			DUP02-SA6-QC-071411		SL-074-SA6-SB-4.0-5.0		
				Sample Date	07/11/2011		07/11/2011			07/14/2011		07/14/2011		
				Start Depth:	0		0			4		4		
				End Depth:	0.5		0.5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--	17	U	17	U	--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--	8.2	U	8.2	U	--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--	8.2	U	8.2	U	--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--	8.2	U	8.2	U	--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--	23	U	28	U	--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--	4.1	UJ	0.17	J	200.00
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--	5.1	U	5.1	U	--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	120	U	120	U	--	6.4	U	2.6	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	44	J	42	J	4.65	3.1	J	2.6	UJ	200.00
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	500		450		10.53	53	J	21	J	86.49
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	870		830		4.71	160	J	61	J	89.59
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	120	U	120	U	--	6.4	U	2.6	U	--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--	5.1	U	5.1	U	--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg					--	1	U	1.1	U	--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--	7.5	UJ	82	J	200.00
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--	0.13	J	0.12	J	8.00
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--	4.1	U	4.1	U	--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--	4.1	U	4.1	U	--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-286-SA6		SL-286-SA6			SL-160-SA6		SL-160-SA6		
				Sample Name:	DUP03-SA6-QC-071511		SL-286-SA6-SS-0.0-0.5			DUP04-SA6-QC-072011		SL-160-SA6-SS-0.0-0.5		
				Sample Date	07/14/2011		07/14/2011			07/20/2011		07/20/2011		
				Start Depth:	0		0		RPD	0		0		RPD
				End Depth:	0.5		0.5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	14300		12600		12.64	16800		17600		4.65
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.180	J	0.179	J	0.56	0.204	UJ	0.201	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	8.02	J	8.23	J	2.58	10.1	J	6.70	J	40.48
Inorganic	Barium	7440-39-3	6020	mg/kg	101	J	97.4	J	3.63	160	J	128	J	22.22
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.649	J	0.638	J	1.71	1.07	J	0.965	J	10.32
Inorganic	Boron	7440-42-8	6010B	mg/kg	0.684	J	0.860	J	22.80	4.95	UJ	10.1	UJ	--
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.227	J	0.178	J	24.20	0.147	J	0.0784	J	60.87
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2690		2360		13.07	2930		3050		4.01
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	20.1	J	19.3	J	4.06	37.0	J	29.0	J	24.24
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.66	J	0.66	J	0.00	0.26	J	0.45	J	53.52
Inorganic	Cobalt	7440-48-4	6020	mg/kg	8.70	J	6.90	J	23.08	13.8	J	8.89	J	43.28
Inorganic	Copper	7440-50-8	6020	mg/kg	11.2	J	10.7	J	4.57	19.9	J	17.4	J	13.40
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--					--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	0.99	U	1.0	U	--	2.0	J	2.9	J	36.73
Inorganic	Iron	7439-89-6	6010B	mg/kg	21000		19400		7.92	23100		25400		9.48
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	16.8	J	16.9	J	0.59	11.5	J	8.82	J	26.38
Inorganic	Lithium	7439-93-2	6010B	mg/kg	24.8		21.7		13.33	28.1		30.9		9.49
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4570		4140		9.87	5630		6230		10.12
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	271		267		1.49	292		313		6.94
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0339	J	0.0314	J	7.66	0.0079	J	0.0084	J	6.13
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.854	J	0.705	J	19.11	0.976	J	0.690	J	34.33
Inorganic	Nickel	7440-02-0	6020	mg/kg	13.8	J	13.4	J	2.94	27.9	J	20.9	J	28.69
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--					--
Inorganic	Percent Moisture	MOIST	160.3M	%	0.81		0.88		8.28	1.9		1.7		11.11
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	30.2	U	30.3	U	--	30.6	U	30.5	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	6.95		7.01		0.86	6.70		6.91		3.09
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	385		322		17.82	416		452		8.29
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	3060		2750		10.67	2730		3180		15.23
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.134	J	0.126	J	6.15	0.224	J	0.150	J	39.57
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0695	J	0.0739	J	6.14	0.0872	J	0.0379	J	78.82
Inorganic	Sodium	7440-23-5	6010B	mg/kg	69.9	J	63.9	J	8.97	90.3	J	100	J	10.19
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	14.2		12.5		12.73	17.5		18.1		3.37
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.305	J	0.316	J	3.54	0.446	J	0.350	J	24.12
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.1	U	10.1	U	--	9.90	U	20.1	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1080		963		11.45	1130		1140		0.88
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	40.4	J	38.7	J	4.30	66.7	J	54.7	J	19.77
Inorganic	Zinc	7440-66-6	6020	mg/kg	81.5	J	80.4	J	1.36	102	J	81.5	J	22.34
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	5.04	U	5.04	U	--	4.95	U	5.04	U	--
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	500	U	500	U	--	510	U	510	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	10	U	10	UJ	--	10	U	10	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	500	U	500	U	--	510	U	510	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	10	U	10	UJ	--	10	U	10	UJ	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	500	U	500	U	--	510	U	510	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.5	U	3.5	UJ	--	3.6	U	3.6	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.5	U	3.5	U	--	3.6	U	3.6	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	10	U	10	UJ	--	10	U	10	UJ	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.5	U	3.5	U	--	3.6	U	3.6	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	50.6	J	147	J	97.57	25.9		20.2		24.73
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	7.54	J	17.7	J	80.51	4.00	J	3.12	J	24.72
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	0.779	J	1.27	J	47.93	0.340	J	0.332	J	2.38
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.454	J	0.526	J	14.69	4.96	U	4.96	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	2.94	J	3.34	J	12.74	0.318	J	0.246	J	25.53
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	1.26	J	2.20	J	54.34	0.799	J	0.594	J	29.43
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.757	J	1.13	J	39.53	4.96	U	4.96	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.815	J	0.898	J	9.69	0.680	J	0.472	J	36.11
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	4.98	UJ	4.99	UJ	--	0.186	J	4.96	U	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.214	J	0.210	J	1.89	0.193	J	4.96	U	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	2.84	J	1.70	J	50.22	4.96	U	4.96	U	--
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	0.640	J	1.14	J	56.18	0.212	J	4.96	U	200.00
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	1.21	J	1.30	J	7.17	4.96	U	4.96	U	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0368	J	0.0432	J	16.00	0.0509	J	0.0392	J	25.97
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.659	J	0.765	J	14.89	0.992	U	0.992	U	--
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	15	J	29	J	63.64	1.7	UJ	1.7	J	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	7.2	J	8.6	UJ	200.00	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.7	U	8.6	U	--	1.7	U	1.7	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.3	U	17	U	--	3.4	U	3.4	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.3	U	17	U	--	3.4	U	3.4	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	24		33		31.58	3.4	U	3.4	U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	593	J	2100	J	111.92	436		302		36.31
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	15.4	J	32.2	J	70.59	8.28	J	6.53	J	23.63
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.0	U	9.1	U	--	9.1	U	9.1	U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	6.0	U	7.1	U	--	1.7	UJ	1.8	J	200.00
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.6	U	3.6	U	--	3.7	U	3.7	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.34	U	0.34	U	--	0.35	U	0.35	U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	0.83	U	1.0	U	--	0.35	U	0.35	U	--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	3.9		4.1		5.00	0.095	J	0.35	UJ	200.00
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	3.4	U	3.4	U	--	3.5	U	3.5	U	--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.2	U	1.2	U	--	1.2	U	1.2	R	--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	1.7	U	1.7	R	--	1.7	U	1.7	U	--

Table C-7 - Subarea 6 Field Duplicate Results

					Location	SL-286-SA6		SL-286-SA6			SL-160-SA6		SL-160-SA6		
					Sample Name:	DUP03-SA6-QC-071511		SL-286-SA6-SS-0.0-0.5			DUP04-SA6-QC-072011		SL-160-SA6-SS-0.0-0.5		
					Sample Date	07/14/2011		07/14/2011			07/20/2011		07/20/2011		
					Start Depth:	0		0		RPD	0		0		RPD
					End Depth:	0.5		0.5			0.5		0.5		
					Area:	SA6		SA6			SA6		SA6		
					Matrix:	SO		SO			SO		SO		
					Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg		1.1	U	1.2	U	--	0.35	U	0.35	U	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg		2.4	R	2.4	R	--	2.4	R	2.4	R	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg		0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg		0.34	U	0.34	U	--	0.35	U	0.35	U	--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg		0.34	U	0.34	U	--	0.35	U	0.35	U	--
Pesticides	Endrin	72-20-8	8081A	ug/kg		0.34	U	0.34	R	--	0.35	U	0.35	U	--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg		0.53	U	0.56	U	--	0.35	U	0.35	U	--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg		0.34	U	0.34	U	--	0.35	U	0.35	U	--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg		0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg		0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg		0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	MCPA	94-74-6	8151A	ug/kg		250	U	250	U	--	350		540		42.70
Pesticides	MCPP	93-65-2	8151A	ug/kg		250	U	250	U	--	250	UJ	40.0000000000	UJ	--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg		1.7	U	1.7	U	--	1.7	U	1.7	U	--
Pesticides	Mirex	2385-85-5	8081A	ug/kg		0.34	U	0.34	U	--	0.35	U	0.35	U	--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg		20	U	20	U	--	6.7	U	6.7	U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg						--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg		1.7	U	1.7	U	--	1.7	U	1.7	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg		1000	U	1000	UJ	--	1000	U	1000	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg						--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg						--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg		1.7	U	1.7	U	--	1.7	U	1.7	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg						--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg		340	U	340	U	--	340	U	340	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg						--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg		1.7	U	1.7	U	--	1.7	U	1.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg						--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg		1.2	J	0.57	J	71.19	1.7	U	1.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg						--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg		2.3	J	1.0	J	78.79	1.7	U	1.7	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg		3400	U	3400	R	--	3400	U	3400	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg						--					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg		9.1	J	4.6	J	65.69	1.7	U	1.7	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg						--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg		8.0	J	4.5	J	56.00	1.7	U	1.7	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg				19	J	--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg		23				--	0.69	J	1.7	UJ	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg						--					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg		2.9		4.0		31.88	1.7	U	1.7	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg						--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg		8.9	J	4.5	J	65.67	2.2	J	1.7	UJ	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg		24	J			--	29	J	31	J	6.67
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg				13	J	--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg						--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg		8.2	J	7.3	J	11.61	18	U	18	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg		20	J	19	J	5.13					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg						--	0.63	J	0.48	J	27.03
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg						--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg		0.95	J	0.90	J	5.41	1.7	U	1.7	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg						--					--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg		18	U	18	U	--	18	U	18	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg						--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg		18	U	18	U	--	18	U	18	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg						--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg		8.3	J	18	J	73.76	18	U	18	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg						--					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg		18	U	18	U	--	18	U	18	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg				35	J	--					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg		36				--	0.97	J	0.76	J	24.28
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg						--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg		1.7	U	1.7	U	--	1.7	U	1.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg						--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg		3.0		3.1		3.28	1.7	U	1.7	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg						--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg		0.68	J	1.7	UJ	200.00	1.7	U	1.7	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg						--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg		1.7	U	1.7	U	--	1.7	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg		500	U	500	U	--	510	U	510	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg						--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg		7.8		5.1		41.86	0.72	J	1.7	UJ	200.00
Semivolatiles	Phenol	108-95-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg		31	J	30	J	3.28					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg						--	1.7	U	1.7	U	--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg						--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg						--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg						--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg						--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg						--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg						--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg						--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg						--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg						--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg						--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg						--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg						--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg						--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg						--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-286-SA6		SL-286-SA6			SL-160-SA6			SL-160-SA6		
				Sample Name:	DUP03-SA6-QC-071511		SL-286-SA6-SS-0.0-0.5			DUP04-SA6-QC-072011			SL-160-SA6-SS-0.0-0.5		
				Sample Date	07/14/2011		07/14/2011			07/20/2011			07/20/2011		
				Start Depth:	0		0			0			0		
				End Depth:	0.5		0.5			0.5			0.5		
				Area:	SA6		SA6			SA6			SA6		
				Matrix:	SO		SO			SO			SO		
				Sample Type:	FD		N			FD			N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--						--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--						--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--						--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--						--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--						--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--						--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--						--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--						--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--						--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--						--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--						--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--						--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--						--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--						--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--						--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--						--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--						--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--						--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--						--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--						--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--						--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--						--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--						--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--						--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--						--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--						--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--						--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--						--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--						--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--						--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--						--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--						--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--						--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	6.0	U	1.2	U	--	1.2	U		1.2	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--						--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	2.3	J	1.8	J	24.39	1.3			1.1	J	16.67
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--						--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	23	J	11	J	70.59	9.4			12	J	24.30
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--						--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	84	J	31	J	92.17	27			37		31.25
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--						--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	6.0	UJ	0.44	J	200.00	1.2			1.2	J	0.00
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--						--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--						--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--						--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg					--						--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--						--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--						--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--						--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--						--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--						--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--						--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--						--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--						--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--						--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--						--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--						--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--						--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--						--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--						--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--						--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--						--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--						--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--						--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--						--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-211-SA6		SL-211-SA6			SL-228-SA6		SL-228-SA6		
				Sample Name:	DUP05-SA6-QC-072111		SL-211-SA6-SS-0.0-0.5			DUP06-SA6-QC-072111		SL-228-SA6-SS-0.0-0.5		
				Sample Date	07/21/2011		07/21/2011			07/21/2011		07/21/2011		
				Start Depth:	0		0		RPD	0		0		RPD
				End Depth:	0.5		0.5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	17200		15500		10.40	13800		14500		4.95
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.116	J	0.170	J	37.76	0.188	J	0.206	J	9.14
Inorganic	Arsenic	7440-38-2	6020	mg/kg	4.52		5.00	J	10.08	3.33		3.57		6.96
Inorganic	Barium	7440-39-3	6020	mg/kg	119		145		19.70	99.6		108		8.09
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.587		0.770	J	26.97	0.498		0.537		7.54
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.02	U	7.23		200.00	4.94	U	4.85	U	--
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.728		0.761	J	4.43	0.485		0.559		14.18
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2950		2590		13.00	2800		2910		3.85
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	23.8		27.0	J	12.60	18.1		19.9		9.47
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.46	J	0.94	J	68.57	0.67	J	1.0	UJ	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	6.29		7.23	J	13.91	5.47		6.19		12.35
Inorganic	Copper	7440-50-8	6020	mg/kg	16.8		19.1	J	12.81	11.5		12.5		8.33
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--	0.50	U	0.49	U	--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.6	J	1.5	J	6.45	2.9	J	2.1	J	32.00
Inorganic	Iron	7439-89-6	6010B	mg/kg	21200		19200		9.90	17200		18400		6.74
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	36.7		40.2	J	9.10	19.7		21.2		7.33
Inorganic	Lithium	7439-93-2	6010B	mg/kg	21.3		20.0		6.30	20.4		21.2		3.85
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4610		4230		8.60	3830		4020		4.84
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	324		286		12.46	307		322		4.77
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0466	J	0.0440	J	5.74	0.0337	J	0.0370	J	9.34
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.627		0.750	J	17.86	0.547		0.592		7.90
Inorganic	Nickel	7440-02-0	6020	mg/kg	19.0		21.7	J	13.27	14.2		14.9		4.81
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--	1.1	J	1.1	J	0.00
Inorganic	Percent Moisture	MOIST	160.3M	%	1.3		1.1		16.67	1.8		1.9		5.41
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	30.4	U	30.3	U	--	30.5	U	30.6	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg			5.1	U	--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	6.61		6.46		2.30	7.00		6.78		3.19
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	475		450		5.41	410		433		5.46
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	4110	J	3810	J	7.58	3450	J	3700	J	6.99
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.129	J	0.190	J	38.24	0.117	J	0.125	J	6.61
Inorganic	Silver	7440-22-4	6020	mg/kg	1.23		1.19	J	3.31	0.490		0.512		4.39
Inorganic	Sodium	7440-23-5	6010B	mg/kg	85.1	J	80.0	J	6.18	69.3	J	72.0	J	3.82
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	24.9		23.0		7.93	23.1		24.2		4.65
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.284		0.395	J	32.70	0.236		0.286		19.16
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.0	U	9.82	U	--	9.89	U	9.71	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1150		1030		11.01	935		971		3.78
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	36.7		42.4	J	14.41	28.7		31.3		8.67
Inorganic	Zinc	7440-66-6	6020	mg/kg	110		121		9.52	76.5		78.7		2.84
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.77	J	4.12	J	39.19	2.49	J	4.85	U	200.00
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--	230	U	240	U	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--	230	U	240	U	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg					--	510	U	510	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg					--	10	U	10	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg					--	510	U	510	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg					--	10	U	10	UJ	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--	1500	U	1500	U	--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--	280	U	310	U	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg					--	510	U	510	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg					--	3.6	U	3.6	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--	2300	U	2400	U	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg					--	3.6	U	3.6	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--	2300	U	2400	U	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg					--	10	U	10	UJ	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg					--	3.6	U	3.6	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--	110	U	120	U	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--	110	U	120	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	327		351	J	7.08	561		600		6.72
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	66.4		67.4		1.49	116		115		0.87
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	4.96		4.58	J	7.97	11.1		10.7		3.67
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	3.80	J	3.80	J	0.00	6.48		7.93		20.12
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	4.85	J	3.83	J	23.50	4.88	J	4.43	J	9.67
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	10.1		11.3		11.21	22.9		23.8		3.85
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	3.17	J	2.16	J	37.90	3.68	J	3.35	J	9.39
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	7.03		7.05		0.28	9.06		10.2		11.84
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	0.969	J	0.993	J	2.45	0.973	J	0.898	J	8.02
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	1.85	J	1.63	J	12.64	7.94	J	2.23	J	112.29
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	13.1	J	1.49	J	159.15	4.53	J	5.43		18.07
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	2.95	J	2.90	J	1.71	6.02		5.61		7.05
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	2.69	J	2.02	J	28.45	2.63	J	2.47	J	6.27
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.260	J	0.248	J	4.72	0.653	J	0.611	J	6.65
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	1.96		1.79		9.07	2.18		1.98		9.62
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	23		42	J	58.46	12	J	34	J	95.65
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	20		32		46.15	6.9	J	8.7	UJ	200.00
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	8.6	U	8.6	U	--	1.7	U	8.7	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	17	U	17	U	--	3.4	U	17	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	17	U	17	U	--	3.4	U	17	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	51		67	J	27.12	11	J	22	J	66.67
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	3590		5120	J	35.13	5500	J	5810	J	5.48
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	270		273	J	1.10	344		355		3.15
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.1	U	9.1	U	--	9.1	U	9.2	U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	8.7	U	8.7	U	--	5.9	U	1.7	U	--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.17	U	0.74	J	200.00	0.17	U	0.17	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.6	U	3.6	U	--	3.7	U	3.7	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.46	U	0.34	R	--	0.35	U	0.37	R	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	1.6	U	1.2	J	200.00	10	J	3.9	J	87.77
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	7.4		5.2		34.92	14	J	7.9	J	55.71
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	6.7		3.1	J	73.47	4.1		3.7		10.26
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.17	U	0.16	J	200.00	0.15	J	0.12	J	22.22
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.2	U	1.2	U	--	1.2	U	1.2	R	--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	1.7	U	1.7	U	--	1.7	U	1.7	U	--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-211-SA6		SL-211-SA6			SL-228-SA6		SL-228-SA6		
				Sample Name:	DUP05-SA6-QC-072111		SL-211-SA6-SS-0.0-0.5			DUP06-SA6-QC-072111		SL-228-SA6-SS-0.0-0.5		
				Sample Date	07/21/2011		07/21/2011			07/21/2011		07/21/2011		
				Start Depth:	0		0		RPD	0		0		RPD
				End Depth:	0.5		0.5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	1.8	U	1.6	R	--	0.58	U	0.64	U	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	2.4	U	2.4	R	--	2.4	U	2.4	R	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg	0.47	U	0.50	U	--	0.35	U	0.35	U	--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg	0.34	U	0.34	R	--	0.35	U	0.35	U	--
Pesticides	Endrin	72-20-8	8081A	ug/kg	0.49	U	0.49	R	--	0.35	U	0.35	R	--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg	0.89	U	0.77	J	200.00	0.35	U	0.35	U	--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg	0.34	U	0.34	U	--	0.35	UJ	0.40	J	200.00
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	0.17	U	0.17	UJ	--	0.17	U	0.17	U	--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg	0.17	U	0.17	U	--	0.081	J	0.064	J	23.45
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg	0.32	U	0.28	J	200.00	0.17	U	0.17	U	--
Pesticides	MCPA	94-74-6	8151A	ug/kg	250	U	250	R	--	250	U	250	U	--
Pesticides	MCPP	93-65-2	8151A	ug/kg	250	U	250	U	--	250	U	250	U	--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg	1.7	U	1.7	UJ	--	1.7	U	1.7	U	--
Pesticides	Mirex	2385-85-5	8081A	ug/kg	0.41	U	0.51	U	--	0.46	U	0.47	U	--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg	6.7	U	6.7	U	--	6.7	U	6.7	U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	170	U	170	UJ	--	170	U	170	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	170	U	170	UJ	--	170	U	170	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	8.4	U	0.89	J	200.00	0.75	J	1.7	UJ	200.00
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1000	U	1000	R	--	1000	U	1000	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	8.4	U	1.2	J	200.00	0.89	J	0.82	J	8.19
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	340	U	340	U	--	340	U	340	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	510	U	510	U	--	510	U	510	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	170	U	170	UJ	--	170	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	510	U	510	U	--	510	U	510	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg					--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	8.4	U	0.76	J	200.00	0.86	J	0.79	J	8.48
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg					--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8	J	0.72	J	85.71	0.71	J	1.3	J	58.71
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	510	U	510	U	--	510	U	510	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg					--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	5.7	J	3.2	J	56.18	2.6	J	5.8	J	76.19
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3400	U	3400	R	--	3400	U	3400	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg					--			17	J	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	33		16	J	69.39	13				--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg			19	J	--			19	J	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	34				--	12				--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg			44	J	--			37	J	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	80				--	29				--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg	21	J	20	J	4.88			18	J	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg					--	3.9				--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg					--			22	J	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	42		15	J	94.74	12				--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	510	U	510	UJ	--	510	U	510	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	510	U	510	U	--	510	U	510	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg					--	40	J	54	J	29.79
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	56	J	140		85.71					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg	170	U			--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg			18	U	--	18	UJ	8.0	J	200.00
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg					--	33	J			--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	85		40	J	72.00			57	J	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg					--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	3.4	J	1.8	J	61.54	1.2	J	1.7		34.48
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg	170	U			--					--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg			18	U	--	18	U	18	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg	170	U			--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg			18	U	--	18	U	18	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	35	J	6.7	J	135.73	18	UJ	10	J	200.00
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg	170	U			--					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg			18	U	--	18	U	18	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg			81	J	--			94	J	--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	160				--	47				--
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg					--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	8.4	U	0.83	J	200.00	1.0	J	0.89	J	11.64
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	170	U	170	UJ	--	170	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	510	U	510	U	--	510	U	510	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	170	U	170	UJ	--	170	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg			22	J	--			17	J	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	11				--	4.0				--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	170	U	170	UJ	--	170	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	8.4	U	1.7		200.00	1.0	J	0.96	J	4.08
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg					--	33.7	U	33.6	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	8.4	U	1.7	U	--	1.7	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	510	U	510	U	--	510	U	510	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg			62	J	--			61	J	--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	55				--	26				--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg			76	J	--			85	J	--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	140				--	43				--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	170	U	170	U	--	170	U	170	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-211-SA6		SL-211-SA6			SL-228-SA6		SL-228-SA6		
				Sample Name:	DUP05-SA6-QC-072111		SL-211-SA6-SS-0.0-0.5			DUP06-SA6-QC-072111		SL-228-SA6-SS-0.0-0.5		
				Sample Date	07/21/2011		07/21/2011			07/21/2011		07/21/2011		
				Start Depth:	0		0		RPD	0		0		RPD
				End Depth:	0.5		0.5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--					--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--					--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--					--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--					--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--					--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--					--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--					--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--					--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--					--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--					--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--					--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--					--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--					--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--					--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--					--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--					--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--					--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--					--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--					--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--					--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--					--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--					--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--					--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--					--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--					--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--					--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--					--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--					--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--					--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--					--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--					--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg					--	1.2	U	1.2	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg					--	3.4		4.9	J	36.14
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg					--	11	J	20	J	58.06
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg					--	30		36		18.18
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg					--	0.56	J	0.84	J	40.00
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--					--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--					--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--					--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg					--					--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--					--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--					--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--					--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--					--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--					--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--					--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--					--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--					--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--					--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--					--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--					--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--					--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--					--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--					--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--					--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--					--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--					--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--					--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--					--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-205-SA6		SL-205-SA6			SL-009-SA6		SL-009-SA6		
				Sample Name:	DUP08-SA6-QC-072611		SL-205-SA6-SS-0.0-0.5			DUP09-SA6-QC-072711		SL-009-SA6-SS-0.0-0.5		
				Sample Date	07/26/2011		07/26/2011			07/27/2011		07/27/2011		
				Start Depth:	0		0		RPD	0		0		RPD
				End Depth:	0.5		0.5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	17500		18100		3.37	10700		12100		12.28
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.102	J	0.108	J	5.71	0.370	J	0.123	J	100.20
Inorganic	Arsenic	7440-38-2	6020	mg/kg	4.39	J	4.19	J	4.66	5.52	J	3.12	J	55.56
Inorganic	Barium	7440-39-3	6020	mg/kg	103		99.4		3.56	98.8	J	97.4	J	1.43
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.606		0.598		1.33	0.359		0.419		15.42
Inorganic	Boron	7440-42-8	6010B	mg/kg	4.95	U	5.14	U	--	5.76		6.21		7.52
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.376		0.272		32.10	1.06	J	0.613	J	53.44
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2470		2410		2.46	4490		3490		25.06
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	17.5		16.3		7.10	24.5	J	18.4	J	28.44
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.0	U	1.0	U	--	0.46	J	0.59	J	24.76
Inorganic	Cobalt	7440-48-4	6020	mg/kg	5.43		5.27		2.99	6.58		5.01		27.09
Inorganic	Copper	7440-50-8	6020	mg/kg	8.56		7.36		15.08	57.7	J	12.2	J	130.19
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.51	U	0.51	U	--					--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.2	J	2.1	J	4.65	1.0	U	1.0	U	--
Inorganic	Iron	7439-89-6	6010B	mg/kg	20100		19900		1.00	18400		18400		0.00
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	8.20	J	7.20	J	12.99	59.4	J	27.3	J	74.05
Inorganic	Lithium	7439-93-2	6010B	mg/kg	23.3		23.2		0.43	17.7		20.9		16.58
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4290		4160		3.08	3530		4010		12.73
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	223		223		0.00	294		298		1.35
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0952	U	0.0977	U	--	0.0528	J	0.0573	J	8.17
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.609		0.537		12.57	3.89	J	0.576	J	148.41
Inorganic	Nickel	7440-02-0	6020	mg/kg	12.5		11.5		8.33	31.5	J	13.7	J	78.76
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	4.0		4.2		4.88					--
Inorganic	Percent Moisture	MOIST	160.3M	%	2.8		2.7		3.64	2.7		2.7		0.00
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	30.9	U	30.8	U	--	30.8	U	30.8	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	6.34		6.43		1.41	7.33		7.24		1.24
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	317		294		7.53	472		464		1.71
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	3020		2750		9.36	2850	J	3300	J	14.63
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.189	J	0.189	J	0.00	0.0725	J	0.113	J	43.67
Inorganic	Silver	7440-22-4	6020	mg/kg	0.106		0.123		14.85	0.506	J	0.513	J	1.37
Inorganic	Sodium	7440-23-5	6010B	mg/kg	84.5	J	88.4	J	4.51	103	U	102	U	--
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	21.7		21.7		0.00	20.0		18.9		5.66
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.247	J	0.265	J	7.03	0.187		0.222		17.11
Inorganic	Tin	7440-31-5	6010B	mg/kg	9.89	U	10.3	U	--	10.3	U	10.2	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1000		1010		1.00	884		1030		15.26
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	36.4	J	34.3	J	5.94	34.1	J	30.0	J	12.79
Inorganic	Zinc	7440-66-6	6020	mg/kg	57.1		49.4		14.46	172		115		39.72
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	4.95	U	5.14	U	--	2.79	J	3.31	J	17.05
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	250	U	250	U	--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	250	U	250	U	--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	510	U	510	U	--					--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	10	U	10	UJ	--					--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	510	U	510	U	--					--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	10	U	10	UJ	--					--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1500	U	1500	U	--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	310	U	310	U	--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	510	U	510	U	--					--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.6	U	3.6	UJ	--					--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2500	U	2500	U	--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.6	U	3.6	U	--					--
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2500	U	2500	U	--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	10	U	10	U	--					--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.6	U	3.6	UJ	--					--
Misc. Organics	RDX	121-82-4	8330A	ug/kg	120	U	120	U	--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	120	U	120	U	--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	50.2		64.0		24.17	174		162		7.14
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	13.5		13.3		1.49	30.8		30.9		0.32
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	1.49	J	1.45	J	2.72	2.92	J	2.83	J	3.13
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.737	J	1.29	J	54.56	1.50	J	1.58	J	5.19
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	6.26		7.39		16.56	6.83		6.02		12.61
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	1.66	J	1.84	J	10.29	6.42		6.58		2.46
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.38		3.36	J	46.22	2.79	J	3.33	J	17.65
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	1.69	J	1.73	J	2.34	3.63	J	3.42	J	5.96
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	0.822	J	0.953	J	14.76	0.819	J	0.876	J	6.73
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.363	J	0.547	J	40.44	1.24	J	1.32	J	6.25
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	50.4		30.8		48.28	1.90	J	10.3	J	137.70
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	1.80	J	1.73	J	3.97	2.84	J	3.16	J	10.67
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	17.6		9.71		57.78	5.96		5.95		0.17
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.02	U	0.990	U	--	1.32	J	6.67	J	133.92
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	27.3		21.8		22.40	4.11		4.53		9.72
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	18	J	67	J	115.29	4300	J	1.7	UJ	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.7	U	8.7	U	--	1700	UJ	14	J	200.00
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.7	U	8.7	U	--	1700	U	1.7	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.4	U	17	U	--	3400	U	3.4	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.4	U	17	U	--	3400	U	3.4	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.4	U	17	U	--	9000	J	17	J	199.25
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	583		744	J	24.27	1790		1920		7.01
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	51.4		50.1		2.56	86.7		80.5	J	7.42
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.3	U	9.2	U	--	9.2	U	9.2	U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	1.7	U	1.7	U	--	3.4	J	1.2	J	95.65
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.17	U	0.17	U	--	0.17	U	0.17	U	--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.7	U	3.7	U	--	3.7	U	3.7	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.35	U	0.35	R	--	1.7	U	3.5	U	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	12	U	7.4	U	--	4.5	UJ	13	J	200.00
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	46	J	28	UJ	200.00	140	J	66	J	71.84
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.17	U	0.17	U	--	0.85	U	1.7	U	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.17	U	0.17	U	--	0.85	U	1.7	U	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.17	U	0.17	U	--	0.85	U	1.7	U	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg	3.5	U	3.5	U	--	17	UJ	27	J	200.00
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.17	U	0.17	U	--	0.85	U	1.7	U	--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.2	U	1.2	U	--	1.2	U	1.2	U	--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	1.7	U	1.7	U	--	1.7	U	1.7	U	--

Table C-7 - Subarea 6 Field Duplicate Results

					Location	SL-205-SA6		SL-205-SA6			SL-009-SA6		SL-009-SA6		
					Sample Name:	DUP08-SA6-QC-072611		SL-205-SA6-SS-0.0-0.5			DUP09-SA6-QC-072711		SL-009-SA6-SS-0.0-0.5		
					Sample Date	07/26/2011		07/26/2011			07/27/2011		07/27/2011		
					Start Depth:	0		0		RPD	0		0		RPD
					End Depth:	0.5		0.5			0.5		0.5		
					Area:	SA6		SA6			SA6		SA6		
					Matrix:	SO		SO			SO		SO		
					Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg		10	U	14	U	--	3.0	U	14	U	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg		2.5	R	2.5	R	--	2.5	U	2.5	R	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg		0.17	U	0.17	R	--	0.85	U	1.7	U	--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg		7.0	U	7.0	U	--	1.7	U	3.5	U	--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg		0.35	U	0.35	R	--	1.7	U	3.5	U	--
Pesticides	Endrin	72-20-8	8081A	ug/kg		7.0	U	7.0	U	--	1.7	U	3.6	U	--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg		1.4	U	1.6	U	--	1.7	U	5.4	U	--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg		0.35	U	0.35	U	--	1.7	U	3.5	U	--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg		0.17	U	0.17	U	--	0.85	U	1.7	U	--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg		0.17	U	0.17	U	--	0.85	U	1.7	U	--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg		3.4	U	3.4	U	--	1.4	U	3.9	U	--
Pesticides	MCPA	94-74-6	8151A	ug/kg		260	U	260	U	--	260	U	630	U	--
Pesticides	MCPP	93-65-2	8151A	ug/kg		260	U	260	U	--	260	U	260	U	--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg		1.7	U	1.7	U	--	8.5	U	17	U	--
Pesticides	Mirex	2385-85-5	8081A	ug/kg		1.2	U	0.98	U	--	1.7	U	3.5	U	--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg		6.8	U	6.8	U	--	200	U	200	U	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg						--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg		1000	U	1000	U	--	1000	U	1000	UJ	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg						--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg						--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg						--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg		340	U	340	U	--	340	U	340	R	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg		170	U	170	U	--	170	U	170	UJ	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg		510	U	510	U	--	510	U	510	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg		170	U	170	U	--	170	U	170	UJ	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg		170	U	170	U	--	170	U	170	UJ	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg		510	U	510	U	--	510	U	510	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg						--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg						--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg		510	U	510	U	--	510	U	510	R	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg						--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg		8.6	U	8.6	U	--	2.1	J	8.6	UJ	200.00
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg		3400	U	3400	R	--	3400	U	3400	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg						--					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg		8.6	U	8.6	U	--	4.8	J	6.3	J	27.03
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg						--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg		8.6	U	8.6	U	--	5.5	J	8.6	UJ	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg				18	J	--	22	J			--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg		5.8	J			--			11		--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg						--	23	J			--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg		8.6	UJ	6.0	J	200.00			3.6	J	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg						--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg		8.6	U	8.6	U	--	4.3	J	22	J	134.60
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg		510	U	510	U	--	510	U	510	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg		510	U	510	U	--	510	U	510	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg		19	J	45	J	81.25			340	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg						--	1000				--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg						--					--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg				23	J	--	25	J			--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg		10				--			24		--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg						--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg						--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg						--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg		170	U	170	U	--	24	J	170	UJ	200.00
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg						--					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg						--					--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg		19	J	20	J	5.13					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg						--	17	J	4.6	J	114.81
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg						--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg		510	U	510	U	--	510	U	510	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg						--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg		8.6	U	8.6	U	--	3.6	J	8.6	UJ	200.00
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg						--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg		338	U	340	U	--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg		8.6	U	8.6	U	--	8.6	U	8.6	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg		510	U	510	U	--	510	U	510	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg						--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg		3.8	J	4.4	J	14.63	5.6	J	8.6	UJ	200.00
Semivolatiles	Phenol	108-95-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg		20	J	20	J	0.00	17	J			--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg						--			6.1	J	--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg		170	U	170	U	--	170	U	170	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg						--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg						--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg						--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg						--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg						--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg						--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg						--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg						--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg						--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg						--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg						--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg						--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg						--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg						--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-205-SA6		SL-205-SA6			SL-009-SA6		SL-009-SA6		
				Sample Name:	DUP08-SA6-QC-072611		SL-205-SA6-SS-0.0-0.5			DUP09-SA6-QC-072711		SL-009-SA6-SS-0.0-0.5		
				Sample Date	07/26/2011		07/26/2011			07/27/2011		07/27/2011		
				Start Depth:	0		0			0		0		
				End Depth:	0.5		0.5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--					--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--					--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--					--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--					--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--					--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--					--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--					--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--					--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--					--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--					--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--					--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--					--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--					--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--					--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--					--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--					--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--					--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--					--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--					--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--					--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--					--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--					--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--					--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--					--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--					--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--					--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--					--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--					--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--					--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--					--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--					--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	2.5	U	2.5	R	--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	1.3	J	1.2	J	8.00					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	19		13		37.50					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	69		48		35.90					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	2.5	U	2.5	R	--					--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--					--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--					--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--					--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg					--					--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--					--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--					--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--					--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--					--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--					--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--					--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--					--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--					--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--					--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--					--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--					--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--					--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--					--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--					--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--					--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--					--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--					--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--					--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--					--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-125-SA6		SL-125-SA6			SL-019-SA6		SL-019-SA6		
				Sample Name:	DUP10-SA6-QC-072911		SL-125-SA6-SB-4.0-5.0			DUP11-SA6-QC-080411		SL-019-SA6-SB-4.0-5.0		
				Sample Date	07/29/2011		07/29/2011			08/04/2011		08/04/2011		
				Start Depth:	4		4			4		4		
				End Depth:	5		5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit					RPD					RPD
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	12400	J	17500	J	34.11	19200		19700		2.57
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.110	J	0.129	J	15.90	0.214	UJ	0.219	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	9.88	J	4.45	J	75.79	5.27	J	4.87	J	7.89
Inorganic	Barium	7440-39-3	6020	mg/kg	101		75.9		28.38	101	J	114	J	12.09
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.382		0.518		30.22	0.858	J	0.863	J	0.58
Inorganic	Boron	7440-42-8	6010B	mg/kg	1.30	J	5.81	J	126.86	5.00	J	6.62		27.88
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.216	J	0.202	J	6.70	0.172	J	0.155	J	10.40
Inorganic	Calcium	7440-70-2	6010B	mg/kg	10900	J	26400	J	83.11	10600	J	6430	J	48.97
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	16.1	J	21.2	J	27.35	19.9	J	18.7	J	6.22
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.33	J	0.26	J	23.73	1.1	U	1.1	U	--
Inorganic	Cobalt	7440-48-4	6020	mg/kg	13.9	J	7.17	J	63.88	6.84	J	6.27	J	8.70
Inorganic	Copper	7440-50-8	6020	mg/kg	22.1	J	11.1	J	66.27	7.93		7.39		7.05
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--					--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.2	UJ	1.9	J	200.00	5.8		5.1	J	12.84
Inorganic	Iron	7439-89-6	6010B	mg/kg	26700	J	23800	J	11.49	19000		20800		9.05
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	10.2	J	6.78	J	40.28	8.38	J	8.23	J	1.81
Inorganic	Lithium	7439-93-2	6010B	mg/kg	16.7		24.2		36.67	22.0		24.1		9.11
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4650	J	5990	J	25.19	3950		4180		5.66
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	251	J	272	J	8.03	211		222		5.08
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.509	J	0.0790	J	146.26	0.192	J	0.0311	J	144.24
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	2.05	J	0.346	J	142.24	0.870	J	0.836	J	3.99
Inorganic	Nickel	7440-02-0	6020	mg/kg	9.96	J	13.7	J	31.61	12.9	J	11.8	J	8.91
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--					--
Inorganic	Percent Moisture	MOIST	160.3M	%	12.0		8.6		33.01	8.4		8.8		4.65
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	34.1	U	32.8	U	--	32.8	U	32.9	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	10.1 10.1		8.25		#VALUE!	8.23		8.29		0.73
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	479	J	527	J	9.54	256	J	247	J	3.58
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2310	J	3610	J	43.92	2000		2190		9.07
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.117	J	0.166	J	34.63	0.139	J	0.140	J	0.72
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0386	J	0.0238	J	47.44	0.0590	J	0.0614	J	3.99
Inorganic	Sodium	7440-23-5	6010B	mg/kg	283		227		21.96	193		179		7.53
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	34.7	J	58.0	J	50.27	32.9		28.0		16.09
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.171		0.263		42.40	0.309	J	0.358	J	14.69
Inorganic	Tin	7440-31-5	6010B	mg/kg	11.0	U	10.8	U	--	10.8	U	10.7	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1000	J	1130	J	12.21	1000		1010		1.00
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	38.0		44.7		16.20	40.5	J	39.7	J	2.00
Inorganic	Zinc	7440-66-6	6020	mg/kg	50.6		55.3		8.88	76.7	J	83.5	J	8.49
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	5.52	U	5.5500000000	U	--	3.93	J	3.20	J	20.48
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	570	U	550	U	--					--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	11	U	11	UJ	--					--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	570	U	550	U	--					--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	11	U	11	UJ	--					--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	570	U	550	U	--					--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	4.0	U	3.8	UJ	--					--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	4.0	U	3.8	U	--					--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	11	U	11	U	--					--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	4.0	U	3.8	UJ	--					--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	116	J	12.2	J	161.93	84.1		59.5		34.26
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	8.48	J	0.791	J	165.87	11.2		10.1		10.33
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	0.882	J	5.47	UJ	200.00	2.05	J	1.54	J	28.41
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.641	J	5.47	UJ	200.00	5.41	U	5.41	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	0.752	J	5.47	UJ	200.00	0.928	J	8.24	J	159.51
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	2.24	J	0.220	J	164.23	2.23	J	1.79	J	21.89
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.412	J	5.47	UJ	200.00	0.798	J	2.63	J	106.88
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.823	J	5.47	UJ	200.00	0.602	J	0.553	J	8.48
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.59	U	5.47	U	--	5.41	UJ	0.717	J	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.197	J	5.47	UJ	200.00	0.148	J	0.170	J	13.84
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	1.13	J	5.47	UJ	200.00	0.755	J	1.69	J	76.48
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	0.594	J	5.47	UJ	200.00	0.967	J	1.52	J	44.47
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	0.357	J	5.47	UJ	200.00	0.603	J	3.13	J	135.39
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.113	J	0.0169	J	147.96	1.08	U	1.08	U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.754	J	1.09	UJ	200.00	0.274	J	1.79	J	146.90
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	6.9	J	3.9	J	55.56	13	J	93	UJ	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.9	U	1.9	U	--	15	J	700	J	191.61
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	1.9	U	--	1.9	U	93	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.8	U	3.6	U	--	3.6	U	180	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.8	U	3.6	U	--	3.6	U	180	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	7.8		6.5		18.18	3.6	U	180	U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	1540	J	117	J	171.76	1990	J	1060	J	60.98
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	23.2	J	2.01	J	168.11	25.2	J	14.7	J	52.63
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg					--					--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg					--					--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg					--					--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg					--					--
Pesticides	2,4-D	94-75-7	8151A	ug/kg					--					--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg					--					--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg					--					--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg					--					--
Pesticides	Aldrin	309-00-2	8081A	ug/kg					--					--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg					--					--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg					--					--
Pesticides	Chlordane	57-74-9	8081A	ug/kg					--					--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg					--					--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg					--					--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-125-SA6		SL-125-SA6			SL-019-SA6		SL-019-SA6		
				Sample Name:	DUP10-SA6-QC-072911		SL-125-SA6-SB-4.0-5.0			DUP11-SA6-QC-080411		SL-019-SA6-SB-4.0-5.0		
				Sample Date	07/29/2011		07/29/2011			08/04/2011		08/04/2011		
				Start Depth:	4		4		RPD	4		4		RPD
				End Depth:	5		5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg					--					--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg					--					--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg					--					--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg					--					--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg					--					--
Pesticides	Endrin	72-20-8	8081A	ug/kg					--					--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg					--					--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg					--					--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg					--					--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg					--					--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg					--					--
Pesticides	MCPA	94-74-6	8151A	ug/kg					--					--
Pesticides	MCPP	93-65-2	8151A	ug/kg					--					--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg					--					--
Pesticides	Mirex	2385-85-5	8081A	ug/kg					--					--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg					--					--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.9	U	9.1	U	--	1.8	U	1.8	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100	U	1100	U	--	1100	U	1100	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.9	U	9.1	U	--	1.8	U	1.8	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	380	U	360	U	--	360	U	370	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	570	U	550	U	--	550	U	550	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	570	U	550	U	--	550	U	550	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg					--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.9	UJ	97	J	200.00	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg					--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.9	UJ	3.7	J	200.00	1.8	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	570	U	550	U	--	550	U	550	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg					--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.9	UJ	730	J	200.00	1.8	UJ	1.8	J	200.00
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3800	U	3600	U	--	3600	U	3700	UJ	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg	50	J			--					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg			960		--	1.8	UJ	2.5	J	200.00
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg	57	J			--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg			550		--	1.8	UJ	3.5	J	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg	85	J			--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg			930		--	0.85	J	9.4	J	166.83
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg	65	J			--					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg			300		--	1.8	UJ	3.9	J	200.00
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg	28	J			--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg			420		--	1.8	UJ	1.8	J	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	570	U	550	U	--	550	UJ	550	UJ	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	570	U	550	U	--	550	U	550	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	84000				--					--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg			84	J	--	20	UJ	10	J	200.00
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg			180	U	--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	8.2	J			--	20	U	20	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg	54	J			--					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg			750		--	0.50	J	6.0	J	169.23
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg					--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.9	UJ	69	J	200.00	1.8	UJ	2.1	J	200.00
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg			180	U	--					--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	20	U			--	20	U	20	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg			180	U	--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	20	U			--	20	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	14	J	57	J	121.13	20	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg			180	U	--					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	20	U			--	20	U	20	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg	89	J			--					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg			3100		--	1.8	UJ	2.1	J	200.00
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg					--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.9	UJ	110	J	200.00	1.8	UJ	0.80	J	200.00
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	570	U	550	U	--	550	U	550	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg	36	J			--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg			280		--	1.8	UJ	1.9	J	200.00
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.9	U	9.1	U	--	1.8	UJ	1.8	UJ	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg					--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.9	U	9.1	U	--	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	570	U	550	U	--	550	U	550	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg	21	J			--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg			2600		--	1.8	UJ	1.7	J	200.00
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg	95	J			--					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg			1900		--	1.8	UJ	2.2	J	200.00
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	190	U	180	U	--	180	U	180	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-125-SA6		SL-125-SA6			SL-019-SA6		SL-019-SA6		
				Sample Name:	DUP10-SA6-QC-072911		SL-125-SA6-SB-4.0-5.0			DUP11-SA6-QC-080411		SL-019-SA6-SB-4.0-5.0		
				Sample Date	07/29/2011		07/29/2011			08/04/2011		08/04/2011		
				Start Depth:	4		4			4		4		
				End Depth:	5		5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--					--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--					--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--					--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--					--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--					--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--					--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--					--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--					--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--					--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--					--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--					--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--					--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--					--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--					--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--					--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--					--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--					--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--					--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--					--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--					--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--					--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--					--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--					--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--					--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--					--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--					--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--					--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--					--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--					--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--					--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--					--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	14	U	2.6	R	--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	9.2	J	2.6	UJ	200.00					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	63	J	7.7	J	156.44					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	130	J	19	J	148.99					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	14	U	2.6	R	--					--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--					--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--					--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--					--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg	1	U	1	U	--					--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--					--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--					--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--					--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--					--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--					--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--					--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--					--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--					--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--					--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--					--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--					--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--					--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--					--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--					--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--					--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--					--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--					--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--					--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--					--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-224-SA6		SL-224-SA6			SL-252-SA6		SL-252-SA6		
				Sample Name:	DUP12-SA6-QC-081711		SL-224-SA6-SB-3.0-4.0			DUP13-SA6-QC-082611		SL-252-SA6-SB-4.0-5.0		
				Sample Date	08/17/2011		08/17/2011			08/26/2011		08/26/2011		
				Start Depth:	3		3			4		4		
				End Depth:	4		4			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit					RPD					RPD
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	19300		27300		34.33	10200		13900		30.71
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.103	J	0.145	J	33.87	0.191	J	8.45	J	191.16
Inorganic	Arsenic	7440-38-2	6020	mg/kg	10.1	J	11.3	J	11.21	4.58	J	9.38	J	68.77
Inorganic	Barium	7440-39-3	6020	mg/kg	89.6		138		42.53	126	J	142	J	11.94
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.932	J	1.27	J	30.70	0.616	J	0.825	J	29.01
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.09	UJ	25.7	J	200.00	4.34	J	0.699	J	144.51
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.0651	J	0.0804	J	21.03	0.384	J	3.54	J	160.86
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2950	J	5010	J	51.76	2170		3400		44.17
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	20.3	J	40.9	J	67.32	20.1	J	131	J	146.79
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.23	J	1.1	UJ	200.00	1.1	UJ	0.64	J	200.00
Inorganic	Cobalt	7440-48-4	6020	mg/kg	23.2	J	8.12	J	96.30	5.73	J	11.0	J	63.00
Inorganic	Copper	7440-50-8	6020	mg/kg	12.4	J	23.5	J	61.84	48.0	J	96.3	J	66.94
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--	0.51	U	0.52	U	--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.2	J	2.1	J	4.65	1.9		1.9		0.00
Inorganic	Iron	7439-89-6	6010B	mg/kg	22000	J	38100	J	53.58	17800		21500		18.83
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	10.9	J	11.3	J	3.60	34.3	J	88.0	J	87.82
Inorganic	Lithium	7439-93-2	6010B	mg/kg	30.4		46.8		42.49	23.8		21.8		8.77
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	5370	J	9260	J	53.18	3740		4490		18.23
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	583	J	375	J	43.42	243		267		9.41
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.0079	J	0.109	UJ	200.00	0.0679	J	0.863	J	170.82
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.674	J	0.507	J	28.28	1.27	J	3.87	J	101.17
Inorganic	Nickel	7440-02-0	6020	mg/kg	16.7		23.0		31.74	16.3	J	81.4	J	133.27
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--	4.1		2.5		48.48
Inorganic	Percent Moisture	MOIST	160.3M	%	6.4		9.2		35.90	6.0		5.1		16.22
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.1	U	33.0	U	--	31.9	U	31.6	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	6.70		6.62		1.20	7.86		7.66		2.58
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	303		491		47.36	356		476		28.85
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	1970	J	2870	J	37.19	2990		3050		1.99
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.172	J	0.281	J	48.12	0.0920	J	0.207	J	76.92
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0372	J	0.0649	J	54.26	0.772	J	2.97	J	117.48
Inorganic	Sodium	7440-23-5	6010B	mg/kg	125	J	234	J	60.72	91.6	J	177	J	63.59
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	18.1		30.0		49.48	12.6	J	25.3	J	67.02
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.454	J	0.427	J	6.13	0.320	J	0.306	J	4.47
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.2	U	10.9	U	--	10.4	U	10.2	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1000		1460		37.40	1000	J	1040	J	3.92
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	40.0	J	70.5	J	55.20	37.0		45.2		19.95
Inorganic	Zinc	7440-66-6	6020	mg/kg	58.8		96.2		48.26	95.6	J	471	J	132.51
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	1.01	J	1.58	J	44.02	1.41	J	2.98	J	71.53
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--	260	U	250	U	--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--	260	U	250	U	--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	530	U	550	U	--	530	U	530	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	11	U	11	UJ	--	11	U	11	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	530	UJ	160	J	200.00	530	U	530	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	11	U	11	UJ	--	11	U	11	UJ	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--	1400	J	830	J	51.12
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--	320	U	320	U	--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	530	U	550	U	--	530	U	530	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.7	U	3.8	U	--	3.7	U	3.7	R	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--	2600	U	2500	U	--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.7	U	3.8	U	--	3.7	U	3.7	R	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--	2600	U	2500	U	--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	11	U	11	U	--	11	U	11	UJ	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.7	U	3.8	U	--	3.7	U	3.7	R	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--	130	U	130	U	--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--	130	U	130	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.30	UJ	5.26	UJ	--	270	J	2210	J	156.45
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.30	UJ	5.26	UJ	--	63.2	J	214	J	108.80
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.30	U	5.26	U	--	14.2		19.2		29.94
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	0.230	J	5.26	UJ	200.00	2.64	J	7.11	J	91.69
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	0.339	J	5.26	UJ	200.00	28.9	J	17.0	J	51.85
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.30	UJ	5.26	UJ	--	11.5	J	56.2	J	132.05
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.344	J	5.26	UJ	200.00	11.0		14.1		24.70
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	0.230	J	5.26	UJ	200.00	5.65	J	20.6	J	113.90
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	0.229	J	5.26	UJ	200.00	8.87	J	5.26	UJ	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.483	J	5.26	UJ	200.00	5.11	UJ	3.95	J	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.585	J	5.26	UJ	200.00	31.3		23.9		26.81
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	0.190	J	5.26	UJ	200.00	11.4		16.7		37.72
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	0.442	J	5.26	UJ	200.00	9.42	J	5.56	J	51.54
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	0.0807	J	1.05	UJ	200.00	0.134	J	0.727	J	137.75
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.110	J	1.05	UJ	200.00	4.76	J	8.25	J	53.65
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.8	U	1.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	2.8	U	2.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.8	U	1.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.8	U	1.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8	U	1.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.8	UJ	0.40	J	200.00	9100	J	1100	J	156.86
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.8	U	1.9	U	--	4100	J	1500	J	92.86
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.8	U	1.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.8	U	1.9	U	--	900	U	180	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.5	U	3.6	U	--	1800	U	350	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.5	U	3.6	U	--	1800	U	350	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.5	U	3.6	U	--	1800	UJ	1300	J	200.00
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	10.6	U	10.5	U	--	3690	J	26000	J	150.29
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	0.208	J	0.133	J	43.99	109	J	452	J	122.28
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg					--					--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg					--					--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg					--					--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg					--					--
Pesticides	2,4-D	94-75-7	8151A	ug/kg					--					--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg					--					--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg					--					--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg					--					--
Pesticides	Aldrin	309-00-2	8081A	ug/kg					--					--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg					--					--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg					--					--
Pesticides	Chlordane	57-74-9	8081A	ug/kg					--					--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg					--					--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg					--					--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-224-SA6		SL-224-SA6			SL-252-SA6		SL-252-SA6		
				Sample Name:	DUP12-SA6-QC-081711		SL-224-SA6-SB-3.0-4.0			DUP13-SA6-QC-082611		SL-252-SA6-SB-4.0-5.0		
				Sample Date	08/17/2011		08/17/2011			08/26/2011		08/26/2011		
				Start Depth:	3		3		RPD	4		4		RPD
				End Depth:	4		4			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg					--					--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg					--					--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg					--					--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg					--					--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg					--					--
Pesticides	Endrin	72-20-8	8081A	ug/kg					--					--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg					--					--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg					--					--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg					--					--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg					--					--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg					--					--
Pesticides	MCPA	94-74-6	8151A	ug/kg					--					--
Pesticides	MCPP	93-65-2	8151A	ug/kg					--					--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg					--					--
Pesticides	Mirex	2385-85-5	8081A	ug/kg					--					--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg					--					--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100	U	1100	U	--	1000	U	1100	R	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	350	U	370	U	--	350	U	350	UJ	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg					--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg					--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg					--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	0.90	J	1.8	UJ	200.00	8.8	UJ	8.9	J	200.00
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3500	U	3700	R	--	3500	U	3500	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg					--			23	J	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U			--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg					--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	33	J	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg					--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	70	J	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg					--			29	J	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.8	U	1.8	U	--	4.6	J			--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg					--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	28	J	200.00
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg					--	59	J			--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	19	U	20	U	--			300		--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg					--	170	U	180	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	19	U	20	U	--					--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg					--					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	210	J	200.00
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg					--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	4.7	J	200.00
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg	85	J			--	170	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg			20	U	--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg					--	170	U	180	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	19	U	20	U	--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--	76	J			--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	19	U	20	U	--			41	J	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg					--	170	U	180	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	19	U	20	U	--					--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg					--					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	51	J	200.00
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg					--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg					--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	UJ	14	J	200.00
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg					--	349	U	345	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	8.8	U	8.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	530	U	550	U	--	520	U	530	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg					--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	0.89	J	1.8	UJ	200.00	8.8	UJ	25	J	200.00
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg					--					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.8	U	1.8	U	--	7.5	J	93	J	170.15
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	180	U	180	U	--	170	U	180	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-224-SA6		SL-224-SA6			SL-252-SA6		SL-252-SA6		
				Sample Name:	DUP12-SA6-QC-081711		SL-224-SA6-SB-3.0-4.0			DUP13-SA6-QC-082611		SL-252-SA6-SB-4.0-5.0		
				Sample Date	08/17/2011		08/17/2011			08/26/2011		08/26/2011		
				Start Depth:	3		3			4		4		
				End Depth:	4		4			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--					--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--					--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--					--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--					--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--					--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--					--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--					--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--					--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--					--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--					--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--					--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--					--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--					--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--					--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--					--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--					--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--					--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--					--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--					--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--					--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--					--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--					--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--					--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--					--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--					--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--					--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--					--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--					--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--					--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--					--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--					--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	1.3	U	1.3	U	--	1.3	UJ	36	J	200.00
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	1.3	U	1.3	U	--	0.62	J	350	J	199.29
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	1.3	UJ	3.7	J	200.00	8.3	J	600	J	194.54
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	2.4000000000	UJ	9.6	J	200.00	8.4	J	690	J	195.19
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	1.3	U	1.3	U	--	1.3	U	32	U	--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--					--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--					--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--					--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg	1	U	1.0	U	--	1	U	0.9	U	--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--					--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--					--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--					--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--					--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--					--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--					--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--					--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--					--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--					--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--					--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--					--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--					--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--					--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--					--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--					--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--					--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--					--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--					--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--					--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-262-SA6		SL-262-SA6			SL-001-SA6		SL-001-SA6		
				Sample Name:	DUP14-SA6-QC-090111		SL-262-SA6-SB-4.0-5.0			DUP15-SA6-QC-090911		SL-001-SA6-SB-0.0-1.0		
				Sample Date	09/01/2011		09/01/2011			09/09/2011		09/09/2011		
				Start Depth:	4		4			0		0		
				End Depth:	5		5		RPD	1		1		RPD
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit										
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	21700		20700		4.72	23200		23200		0.00
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.156	J	0.195	J	22.22	0.202	UJ	0.204	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	6.11	J	4.78	J	24.43	5.08		5.26		3.48
Inorganic	Barium	7440-39-3	6020	mg/kg	151	J	105	J	35.94	95.1		99.1		4.12
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.972	J	0.750	J	25.78	0.641		0.710		10.21
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.39	U	5.31	U	--	14.5		13.9		4.23
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.127	J	0.105	J	18.97	0.225		0.271		18.55
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2160		2170		0.46	61000		51700		16.50
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	29.2	J	20.9	J	33.13	27.0	J	27.4	J	1.47
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.32	J	0.38	J	17.14	0.34	J	0.76	J	76.36
Inorganic	Cobalt	7440-48-4	6020	mg/kg	8.55	J	5.90	J	36.68	9.23		8.48		8.47
Inorganic	Copper	7440-50-8	6020	mg/kg	12.7	J	8.77	J	36.61	13.5		14.1		4.35
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.55	U	0.55	U	--					--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.5	J	2.4	J	4.08	3.9	J	4.1	J	5.00
Inorganic	Iron	7439-89-6	6010B	mg/kg	20900	J	20200	J	3.41	26300		27100		3.00
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	7.66	J	5.42	J	34.25	8.07		7.66		5.21
Inorganic	Lithium	7439-93-2	6010B	mg/kg	24.3		23.2		4.63	29.4		29.1		1.03
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4420		4230		4.39	7240		7000		3.37
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	316		257		20.59	365		314		15.02
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.110	U	0.107	U	--	0.104	U	0.102	U	--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.687	J	0.523	J	27.11	0.354		0.396		11.20
Inorganic	Nickel	7440-02-0	6020	mg/kg	20.5	J	13.5	J	41.18	17.4		16.8		3.51
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	1.6	J	1.5	J	6.45					--
Inorganic	Percent Moisture	MOIST	160.3M	%	9.9		8.6		14.05	4.9		4.0		20.22
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	33.3	U	32.8	U	--	31.5	U	31.3	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	7.10		6.99		1.56	8.29		8.28		0.12
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	238	J	207	J	13.93	553		530		4.25
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2890	J	2150	J	29.37	4590		4490		2.20
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.122	J	0.127	J	4.02	0.211	J	0.223	J	5.53
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0422	J	0.0410	J	2.88	0.0180	J	0.0276	J	42.11
Inorganic	Sodium	7440-23-5	6010B	mg/kg	94.8	J	97.9	J	3.22	208		193		7.48
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	23.3		23.6		1.28	119		105		12.50
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.417	J	0.261	J	46.02	0.276		0.306		10.31
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.8	U	10.6	U	--	10.0	U	10.1	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1260		1350		6.90	1350		1420		5.05
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	56.6	J	41.6	J	30.55	52.6	J	53.5	J	1.70
Inorganic	Zinc	7440-66-6	6020	mg/kg	73.7	J	52.7	J	33.23	64.2		68.8		6.92
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.74	J	2.30	J	17.46	6.13		5.70		7.27
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	130	U	130	UJ	--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	260	U	250	U	--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	260	U	250	U	--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	550	U	550	U	--					--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	11	U	11	UJ	--					--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	550	U	550	U	--					--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	11	U	11	U	--					--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1700	U	1600	U	--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	330	U	320	U	--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	550	U	550	U	--					--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.9	U	3.8	U	--					--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2600	U	2500	U	--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.9	U	3.8	U	--					--
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2600	U	2500	U	--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	11	U	11	U	--					--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.9	U	3.8	R	--					--
Misc. Organics	RDX	121-82-4	8330A	ug/kg	130	U	130	U	--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	130	U	130	U	--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.49	U	5.44	U	--	14.9		14.6		2.03
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.49	U	5.44	U	--	1.61	J	1.49	J	7.74
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.49	U	5.44	U	--	5.25	U	5.20	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.49	U	5.44	U	--	5.25	U	5.20	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.49	U	5.44	U	--	0.300	J	0.269	J	10.90
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.49	U	5.44	U	--	0.355	J	0.347	J	2.28
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.49	U	5.44	U	--	0.155	J	0.0932	J	49.80
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.49	UJ	5.44	UJ	--	5.25	U	5.20	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.49	UJ	5.44	UJ	--	0.0685	J	0.0706	J	3.02
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	5.49	U	5.44	U	--	0.252	J	5.20	UJ	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.49	UJ	5.44	UJ	--	0.338	J	0.0490	J	149.35
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.49	U	5.44	U	--	5.25	U	5.20	U	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.49	U	5.44	U	--	0.310	J	5.20	UJ	200.00
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.10	U	1.09	U	--	0.0868	J	1.04	UJ	200.00
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0186	J	1.09	UJ	200.00	1.05	U	1.04	U	--
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.9	U	1.9	U	--	2.5	J	4.5	J	57.14
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.9	U	1.9	U	--	3.8	J	1.8	UJ	200.00
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.7	UJ	3.6	UJ	--	3.5	U	3.4	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.7	UJ	3.6	UJ	--	3.5	U	3.4	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.7	UJ	3.6	UJ	--	2.6	J	3.4	UJ	200.00
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	11.0	UJ	2.08	J	200.00	268		219	J	20.12
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.0	UJ	10.9	UJ	--	5.30	J	4.62	J	13.71
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg					--					--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg					--					--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg					--					--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg					--					--
Pesticides	2,4-D	94-75-7	8151A	ug/kg					--					--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg					--					--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg					--					--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg					--					--
Pesticides	Aldrin	309-00-2	8081A	ug/kg					--					--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg					--					--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg					--					--
Pesticides	Chlordane	57-74-9	8081A	ug/kg					--					--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg					--					--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg					--					--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-262-SA6		SL-262-SA6			SL-001-SA6		SL-001-SA6		
				Sample Name:	DUP14-SA6-QC-090111		SL-262-SA6-SB-4.0-5.0			DUP15-SA6-QC-090911		SL-001-SA6-SB-0.0-1.0		
				Sample Date	09/01/2011		09/01/2011			09/09/2011		09/09/2011		
				Start Depth:	4		4		RPD	0		0		RPD
				End Depth:	5		5			1		1		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg					--					--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg					--					--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg					--					--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg					--					--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg					--					--
Pesticides	Endrin	72-20-8	8081A	ug/kg					--					--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg					--					--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg					--					--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg					--					--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg					--					--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg					--					--
Pesticides	MCPA	94-74-6	8151A	ug/kg					--					--
Pesticides	MCPP	93-65-2	8151A	ug/kg					--					--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg					--					--
Pesticides	Mirex	2385-85-5	8081A	ug/kg					--					--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg					--					--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.8	U	1.8	UJ	--	1.7	U	1.7	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100	U	1100	U	--	1100	U	1000	R	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	360	U	360	U	--	350	U	350	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	550	U	540	U	--	530	U	520	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	550	U	540	U	--	530	U	520	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg					--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg					--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	550	U	540	U	--	530	U	520	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg					--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3600	U	3600	R	--	3500	U	3500	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg					--					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg					--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg					--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg					--					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg					--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	550	U	540	U	--	530	U	520	R	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	550	U	540	U	--	530	U	520	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg					--	740		570		25.95
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	20	UJ	8.2	J	200.00					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg					--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	20	U	20	U	--	19	U	19	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg					--					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg					--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg					--					--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	20	U	20	U	--	19	U	19	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg					--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	20	U	20	UJ	--	19	U	19	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	20	U	20	U	--	19	U	19	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg					--					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	20	UJ	24	J	200.00	19	U	19	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg					--					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg					--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	550	U	540	U	--	530	U	520	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg					--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	36.5	U	36.5	U	--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.8	U	1.8	UJ	--	1.7	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	550	U	540	U	--	530	U	520	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg					--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg					--					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.8	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	180	U	180	U	--	180	U	170	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-262-SA6		SL-262-SA6			SL-001-SA6		SL-001-SA6		
				Sample Name:	DUP14-SA6-QC-090111		SL-262-SA6-SB-4.0-5.0			DUP15-SA6-QC-090911		SL-001-SA6-SB-0.0-1.0		
				Sample Date	09/01/2011		09/01/2011			09/09/2011		09/09/2011		
				Start Depth:	4		4			0		0		
				End Depth:	5		5			1		1		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--					--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--					--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--					--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--					--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--					--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--					--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--					--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--					--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--					--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--					--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--					--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--					--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--					--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--					--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--					--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--					--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--					--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--					--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--					--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--					--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--					--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--					--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--					--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--					--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--					--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--					--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--					--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--					--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--					--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--					--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--					--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	1.3	U	1.3	U	--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	1.3	U	1.3	U	--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	1.3	U	1.3	U	--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	0.61	J	0.83	J	30.56					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	1.3	U	1.3	U	--					--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--					--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--					--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--					--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg	1.0	U	0.9	U	--					--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--					--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--					--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--					--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--					--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--					--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--					--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--					--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--					--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--					--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--					--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--					--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--					--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--					--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--					--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--					--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--					--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--					--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--					--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--					--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-319-SA6		SL-319-SA6			SL-283-SA6		SL-283-SA6		
				Sample Name:	DUP16-SA6-QC-100511		SL-319-SA6-SB-4.0-5.0			DUP17-SA6-QC-120111		SL-283-SA6-SS-0.0-0.5		
				Sample Date	10/05/2011		10/05/2011			12/01/2011		11/30/2011		
				Start Depth:	4		4			0		0		
				End Depth:	5		5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit					RPD					RPD
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	23100		24000		3.82	13000		14200		8.82
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.214	UJ	0.2690000000	UJ	--	0.216	UJ	0.205	UJ	--
Inorganic	Arsenic	7440-38-2	6020	mg/kg	5.98		7.21		18.65	4.74	J	4.49	J	5.42
Inorganic	Barium	7440-39-3	6020	mg/kg	112	J	147	J	27.03	104	J	109	J	4.69
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.749		1.05		33.46	0.678	J	0.509	J	28.48
Inorganic	Boron	7440-42-8	6010B	mg/kg	5.31	U	2.93	J	200.00	4.71	J	4.88	J	3.55
Inorganic	Boron	7440-42-8	6020	mg/kg					--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.0778	J	0.0910	J	15.64	0.208	J	0.245	J	16.34
Inorganic	Calcium	7440-70-2	6010B	mg/kg	2370		2320		2.13	4030		4940		20.29
Inorganic	Calcium	7440-70-2	6020	mg/kg					--					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	23.0		29.4		24.43	21.8	J	19.1	J	13.20
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.49	J	0.22	J	76.06	0.28	J	0.32	J	13.33
Inorganic	Cobalt	7440-48-4	6020	mg/kg	8.31	J	9.38	J	12.10	7.02	J	7.17	J	2.11
Inorganic	Copper	7440-50-8	6020	mg/kg	9.33	J	11.5	J	20.84	12.1	J	12.7	J	4.84
Inorganic	Cyanide	57-12-5	9012B	mg/kg	0.52	U	0.54	U	--	0.52	U	0.53	U	--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.7	J	1.5	J	12.50	1.9		1.9		0.00
Inorganic	Iron	7439-89-6	6010B	mg/kg	24800		25700		3.56	19900		22300		11.37
Inorganic	Iron	7439-89-6	6020	mg/kg					--					--
Inorganic	Lead	7439-92-1	6020	mg/kg	6.38	J	8.03	J	22.90	11.6	J	10.9	J	6.22
Inorganic	Lithium	7439-93-2	6010B	mg/kg	28.3		27.8		1.78	20.3		22.7		11.16
Inorganic	Lithium	7439-93-2	6020	mg/kg					--					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	5580		5860		4.90	4380		5170		16.54
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	363		353		2.79	277		328		16.86
Inorganic	Manganese	7439-96-5	6020	mg/kg					--					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.106	U	0.104	U	--	1.62	J	0.562		96.98
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.798		1.04		26.33	2.22	J	0.975	J	77.93
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.8	J	19.7	J	28.41	13.9	J	13.2	J	5.17
Inorganic	Nitrate	14797-55-8	300.0	mg/kg	1.8		1.3	J	32.26					--
Inorganic	Percent Moisture	MOIST	160.3M	%	8.5		8.3		2.38	7.5		6.1		20.59
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.8	U	32.7	U	--	32.4	U	31.9	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit					--					--
Inorganic	pH	pH	9045M	pH unit	6.38		6.47		1.40	8.75		8.37		4.44
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	179		184		2.75	424	J	392	J	7.84
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	2180	J	2080	J	4.69	2470		2630		6.27
Inorganic	Potassium	7440-09-7	6020	mg/kg					--					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.0686	J	0.0908	J	27.85	0.733	J	0.410	UJ	200.00
Inorganic	Silver	7440-22-4	6020	mg/kg	0.117	J	0.129	J	9.76	0.0398	J	0.0524	J	27.33
Inorganic	Sodium	7440-23-5	6010B	mg/kg	125		130		3.92	215		147		37.57
Inorganic	Sodium	7440-23-5	6020	mg/kg					--					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	22.8		21.7		4.94	24.1		21.1		13.27
Inorganic	Strontium	7440-24-6	6020	mg/kg					--					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.312	J	0.380	J	19.65	0.292	J	0.263	J	10.45
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.6	U	10.7	U	--	10.6	UJ	10.4	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1450		1390		4.23	975		1100		12.05
Inorganic	Titanium	7440-32-6	6020	mg/kg					--					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	45.9		59.1		25.14	42.4	J	40.3	J	5.08
Inorganic	Zinc	7440-66-6	6020	mg/kg	67.8	J	75.5	J	10.75	126	J	73.5	J	52.63
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	4.45	J	3.86	J	14.20	5.30	U	2.24	J	200.00
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg	250	U	260	U	--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg	250	U	260	U	--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	550	U	550	U	--	540	U	530	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	11	U	11	UJ	--	11	U	11	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	550	U	550	U	--	540	U	530	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	11	U	11	UJ	--	11	U	11	U	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg	1600	U	1600	U	--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg	310	U	330	U	--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	550	U	550	U	--	130	J	530	U	200.00
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.8	U	3.8	U	--	3.8	U	3.7	U	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg	2500	U	2600	UJ	--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.8	U	3.8	U	--	3.8	U	3.7	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg	2500	U	2600	UJ	--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	11	U	11	UJ	--	11	U	11	U	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.8	U	3.8	U	--	3.8	U	3.7	U	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg	120	U	130	U	--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg	120	U	130	U	--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	1.43	J	5.35	U	200.00	125		130		3.92
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.35	U	5.35	U	--	12.5		12.3		1.61
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	5.35	U	5.35	U	--	1.24	J	1.22	J	1.63
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	5.35	U	5.35	U	--	0.857	J	0.899	J	4.78
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	5.35	UJ	5.35	UJ	--	0.783	J	1.32	J	51.07
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	5.35	UJ	5.35	UJ	--	2.87	J	3.33	J	14.84
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	5.35	U	5.35	U	--	0.551	J	0.816	J	38.77
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.35	U	5.35	U	--	1.06	J	1.63	J	42.38
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.35	UJ	5.35	UJ	--	5.25	U	5.10	U	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.0422	J	5.35	UJ	200.00	5.25	U	0.491	J	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	5.35	UJ	5.35	UJ	--	1.44	J	1.24	J	14.93
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.35	UJ	5.35	UJ	--	0.684	J	0.913	J	28.68
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.35	U	5.35	U	--	5.25	U	5.10	U	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.07	U	1.07	U	--	1.05	U	1.02	U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0399	J	1.07	UJ	200.00	0.159	J	0.335	J	71.26
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.9	UJ	0.55	J	200.00	6.6	J	1.8	U	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.9	UJ	1.0	J	200.00	13	J	24		59.46
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	1.9	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.6	U	3.6	U	--	3.6	U	3.5	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.6	U	3.6	U	--	3.6	U	3.5	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.6	U	3.6	U	--	7.4	J	5.9		22.56
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	15.7		9.80	J	46.27	1990		1460		30.72
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	0.880	J	10.7	U	200.00	37.2		35.9		3.56
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg					--	9.7	U	9.6	U	--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg					--	1.8	U	1.8	U	--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg					--	0.18	U	0.18	U	--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg					--	0.096	J	0.18	U	200.00
Pesticides	2,4-D	94-75-7	8151A	ug/kg					--	3.9	U	3.8	U	--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg					--	0.37	R	0.36	R	--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg					--	0.37	R	0.36	UJ	--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg					--	0.27	J	0.36	R	--
Pesticides	Aldrin	309-00-2	8081A	ug/kg					--	0.18	R	0.18	R	--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg					--	0.18	R	0.18	R	--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg					--	0.18	R	0.18	R	--
Pesticides	Chlordane	57-74-9	8081A	ug/kg					--	3.7	R	3.6	UJ	--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg					--	0.18	R	0.18	R	--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg					--	1.3	U	1.3	U	--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg					--	1.8	U	1.8	U	--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-319-SA6		SL-319-SA6			SL-283-SA6		SL-283-SA6		
				Sample Name:	DUP16-SA6-QC-100511		SL-319-SA6-SB-4.0-5.0			DUP17-SA6-QC-120111		SL-283-SA6-SS-0.0-0.5		
				Sample Date	10/05/2011		10/05/2011			12/01/2011		11/30/2011		
				Start Depth:	4		4		RPD	0		0		RPD
				End Depth:	5		5			0.5		0.5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD		N			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg					--	0.21	J	0.36	R	--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg					--	2.6	U	2.6	U	--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg					--	0.18	R	0.18	R	--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg					--	0.10	J	0.36	R	--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg					--	0.37	R	0.36	R	--
Pesticides	Endrin	72-20-8	8081A	ug/kg					--	0.37	R	0.36	UJ	--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg					--	0.24	J	0.22	J	8.70
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg					--	0.37	R	0.36	R	--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg					--	0.18	R	0.18	UJ	--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg					--	0.18	R	0.18	R	--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg					--	0.18	R	0.18	UJ	--
Pesticides	MCPA	94-74-6	8151A	ug/kg					--	140	J	110	J	24.00
Pesticides	MCPP	93-65-2	8151A	ug/kg					--	270	UJ	270	U	--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg					--	1.8	R	1.8	UJ	--
Pesticides	Mirex	2385-85-5	8081A	ug/kg					--	0.37	R	0.36	UJ	--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg					--	9.9	R	7.0	UJ	--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100	U	1100	U	--	1100	U	11000	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	360	U	360	U	--	360	U	3500	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	540	U	540	U	--	540	U	5300	R	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	540	U	540	U	--	540	U	5300	R	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	540	U	540	U	--	540	U	5300	R	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg					--	26	J	1800	U	200.00
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3600	U	3600	R	--	3600	U	35000	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg					--	21	J	1800	U	200.00
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg					--	32	J	1800	U	200.00
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.8	UJ	1.1	J	200.00					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg					--	83	J	1800	U	200.00
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.8	UJ	0.74	J	200.00					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.8	UJ	0.92	J	200.00					--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	540	U	540	U	--	540	U	5300	R	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	540	U	540	U	--	540	U	5300	R	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg			28	J	--	34	J	3500	U	200.00
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	19	U			--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	19	U	19	U	--					--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg					--	29	J	1800	U	200.00
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.8	UJ	1.4	J	200.00					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	19	U	19	U	--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	19	U	19	U	--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	19	U	19	U	--					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	19	U	19	U	--					--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.8	UJ	2.6	J	200.00					--
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	540	U	540	U	--	540	U	5300	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg					--	50	J	1800	U	200.00
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg	362	U	360	U	--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.8	U	1.8	U	--					--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	540	U	540	U	--	540	U	5300	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.8	UJ	0.96	J	200.00					--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg					--	180	U	1800	U	--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.8	UJ	1.9	J	200.00					--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	180	U	180	U	--	180	U	1800	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-319-SA6		SL-319-SA6			SL-283-SA6			SL-283-SA6		
				Sample Name:	DUP16-SA6-QC-100511		SL-319-SA6-SB-4.0-5.0			DUP17-SA6-QC-120111			SL-283-SA6-SS-0.0-0.5		
				Sample Date	10/05/2011		10/05/2011			12/01/2011			11/30/2011		
				Start Depth:	4		4			0			0		
				End Depth:	5		5			0.5			0.5		
				Area:	SA6		SA6			SA6			SA6		
				Matrix:	SO		SO			SO			SO		
				Sample Type:	FD		N			FD			N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--						--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--						--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--						--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--						--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--						--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--						--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--						--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--						--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--						--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--						--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--						--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--						--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--						--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--						--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--						--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--						--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--						--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--						--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--						--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--						--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--						--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--						--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--						--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--						--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--						--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--						--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--						--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--						--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--						--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--						--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--						--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--						--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--						--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	1.3	U	1.3	U	--	13	U		64	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--						--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	1.3	U	1.3	U	--	13	U		64	U	--
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--						--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	2.9		1.9	J	41.67	60	J		170		95.65
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--						--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	11	J	5.9	J	60.36	260	J		880		108.77
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--						--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	1.3	U	1.3	U	--	13	U		64	U	--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--						--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--						--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--						--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg	0.9	U	1.2	U	--						--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--						--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--						--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--						--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--						--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--						--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--						--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--						--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--						--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--						--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--						--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--						--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--						--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--						--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--						--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--						--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--						--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--						--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--						--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--						--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-283-SA6		SL-283-SA6			SL-155-SA6		SL-155-SA6		
				Sample Name:	DUP17-SA6-QC-120111S		SL-283-SA6-SS-0.0-0.5S			DUP24-SA6-QC-081111		SL-155-SA6-SB-4.0-5.0		
				Sample Date	12/01/2011		11/30/2011			08/11/2011		08/11/2011		
				Start Depth:	0		0			4		4		
				End Depth:	0.5		0.5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD Split		Split			FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit					RPD					RPD
Inorganic	Aluminum	7429-90-5	6010B	mg/kg					--	20000		20600		2.96
Inorganic	Aluminum	7429-90-5	6020	mg/kg	10300		11000		6.57					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.201	J	0.257	J	24.45	0.208	UJ	0.129	J	200.00
Inorganic	Arsenic	7440-38-2	6020	mg/kg	3.58		4.26		17.35	4.01		3.50		13.58
Inorganic	Barium	7440-39-3	6020	mg/kg	75.3	J	87.3	J	14.76	89.4		86.8		2.95
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.462		0.471		1.93	0.639		0.606		5.30
Inorganic	Boron	7440-42-8	6010B	mg/kg					--	3.96	J	4.32	J	8.70
Inorganic	Boron	7440-42-8	6020	mg/kg	5.28	U	5.24	U	--					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.269		0.315		15.75	0.104	UJ	0.0475	J	200.00
Inorganic	Calcium	7440-70-2	6010B	mg/kg					--	1930		1960		1.54
Inorganic	Calcium	7440-70-2	6020	mg/kg	3790		5390		34.86					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	14.7	J	17.5	J	17.39	19.2		18.5		3.71
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	1.09	U	1.07	U	--	0.49	J	0.78	J	45.67
Inorganic	Cobalt	7440-48-4	6020	mg/kg	5.19		6.03		14.97	4.79		4.37		9.17
Inorganic	Copper	7440-50-8	6020	mg/kg	8.21		10.2		21.62	6.16		6.34		2.88
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--					--
Inorganic	Cyanide	57-12-5	9014	mg/kg	0.543	U	0.535	U	--					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	2.34		1.81		25.54	2.6	J	2.3	J	12.24
Inorganic	Iron	7439-89-6	6010B	mg/kg					--	20600		20700		0.48
Inorganic	Iron	7439-89-6	6020	mg/kg	17500		19100		8.74					--
Inorganic	Lead	7439-92-1	6020	mg/kg	15.6		7.79		66.78	4.98		4.67		6.42
Inorganic	Lithium	7439-93-2	6010B	mg/kg					--	25.9		25.9		0.00
Inorganic	Lithium	7439-93-2	6020	mg/kg	19.3		20.3		5.05					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg					--	4470		4630		3.52
Inorganic	Magnesium	7439-95-4	6020	mg/kg	3920		4740		18.94					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg					--	188		217		14.32
Inorganic	Manganese	7439-96-5	6020	mg/kg	252		254		0.79					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	1.75		0.729		82.37	0.105	U	0.104	U	--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	1.92		1.01		62.12	0.623		0.531		15.94
Inorganic	Nickel	7440-02-0	6020	mg/kg	9.28	J	11.1	J	17.86	11.7		11.5		1.72
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--					--
Inorganic	Percent Moisture	MOIST	160.3M	%					--	5.0		5.6		11.32
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	43.5	U	21.4	U	--	31.6	U	31.8	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--					--
Inorganic	pH	pH	9045D	pH unit	8.70		8.59		1.27					--
Inorganic	pH	pH	9045M	pH unit					--	6.00		6.09		1.49
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg					--	208		220		5.61
Inorganic	Phosphorus	7723-14-0	6020	mg/kg	364		369		1.36					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg					--	1510		1590		5.16
Inorganic	Potassium	7440-09-7	6020	mg/kg	2370		2540		6.92					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.469		0.419	U	200.00	0.103	J	0.120	J	15.25
Inorganic	Silver	7440-22-4	6020	mg/kg	0.106	U	0.105	U	--	0.0421	J	0.0466	J	10.15
Inorganic	Sodium	7440-23-5	6010B	mg/kg					--	87.4	J	86.9	J	0.57
Inorganic	Sodium	7440-23-5	6020	mg/kg	211		151		33.15					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg					--	16.8		17.0		1.18
Inorganic	Strontium	7440-24-6	6020	mg/kg	23.7		21.7		8.81					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.2480000000	U	0.3880000000	U	--	0.222		0.223		0.45
Inorganic	Tin	7440-31-5	6010B	mg/kg					--	10.5	U	10.5	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg	10.6	U	10.5	U	--					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg					--	1090		1140		4.48
Inorganic	Titanium	7440-32-6	6020	mg/kg	812		909		11.27					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	30.2		34.5		13.29	37.2	J	36.1	J	3.00
Inorganic	Zinc	7440-66-6	6020	mg/kg	102		64.6		44.90	44.1		45.3		2.68
Inorganic	Zirconium	7440-67-7	6010B	mg/kg					--	5.26	UJ	4.48	J	200.00
Inorganic	Zirconium	7440-67-7	6020	mg/kg	5.28	U	5.24	U	--					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	540	U	530	U	--					--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	16	U	16	U	--					--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	540	U	530	U	--					--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	11	U	11	U	--					--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	540	U	530	U	--					--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg					--					--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg					--					--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	11	U	11	U	--					--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg					--					--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg					--	5.18	U	5.28	U	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg					--	5.18	U	5.28	U	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg					--	5.18	U	5.28	U	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg					--	5.18	UJ	5.28	UJ	--
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg					--	5.18	UJ	5.28	UJ	--
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg					--	5.18	UJ	0.0909	J	200.00
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg					--	5.18	U	5.28	U	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg					--	5.18	UJ	5.28	UJ	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg					--	5.18	UJ	5.28	UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg					--	0.0893	J	0.185	J	69.78
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg					--	5.18	UJ	0.164	J	200.00
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg					--	5.18	UJ	0.0675	J	200.00
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg					--	5.18	UJ	5.28	UJ	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg					--	1.04	U	1.06	U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg					--	1.04	U	1.06	U	--
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.8	U	1.8	U	--	1.8	UJ	0.93	J	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	20	J	1.8	U	200.00	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.8	U	1.8	U	--	1.8	U	1.8	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.6	U	3.5	U	--	3.5	U	3.5	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.6	U	3.5	U	--	3.5	U	3.5	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	6.3		3.5	U	200.00	3.5	U	3.5	U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg					--	10.4	U	10.6	U	--
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg					--	10.4	UJ	10.6	UJ	--
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg	9.8	U	9.6	U	--					--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg	1.8	U	1.8	U	--					--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg	0.18	U	0.18	U	--					--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg	0.18	U	0.18	U	--					--
Pesticides	2,4-D	94-75-7	8151A	ug/kg	3.9	U	3.9	U	--					--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg	0.37	UJ	0.36	UJ	--					--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg	0.37	UJ	0.36	UJ	--					--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg	2.6	J	6.2	J	81.82					--
Pesticides	Aldrin	309-00-2	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	Chlordane	57-74-9	8081A	ug/kg					--					--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg	3.7	U	3.6	U	--					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg	1.3	U	1.3	U	--					--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg	2.6	U	2.6	U	--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-283-SA6		SL-283-SA6			SL-155-SA6		SL-155-SA6		
				Sample Name:	DUP17-SA6-QC-120111S		SL-283-SA6-SS-0.0-0.5S			DUP24-SA6-QC-081111		SL-155-SA6-SB-4.0-5.0		
				Sample Date	12/01/2011		11/30/2011			08/11/2011		08/11/2011		
				Start Depth:	0		0		RPD	4		4		RPD
				End Depth:	0.5		0.5			5		5		
				Area:	SA6		SA6			SA6		SA6		
				Matrix:	SO		SO			SO		SO		
				Sample Type:	FD Split		Split			FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg	0.37	UJ	0.36	UJ	--					--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg	1.8	U	1.8	U	--					--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg	0.18	U	0.18	U	--					--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg	0.37	U	0.36	U	--					--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg	0.37	U	0.36	U	--					--
Pesticides	Endrin	72-20-8	8081A	ug/kg	0.37	UJ	0.36	UJ	--					--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg	0.37	U	0.36	U	--					--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg	0.37	U	0.36	U	--					--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg	0.18	UJ	0.18	UJ	--					--
Pesticides	MCPA	94-74-6	8151A	ug/kg	270	U	270	U	--					--
Pesticides	MCPP	93-65-2	8151A	ug/kg	270	U	270	U	--					--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg	1.8	UJ	1.8	UJ	--					--
Pesticides	Mirex	2385-85-5	8081A	ug/kg	0.37	U	0.36	U	--					--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg	7.2	U	7.1	U	--					--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	UJ	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	720	U	360	U	--	1000	U	1100	U	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	360	U	180	U	--	350	U	350	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	720	U	360	U	--	520	U	530	U	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	720	U	360	U	--	520	U	530	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	720	U	360	U	--	520	U	530	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	2200	U	1100	R	--	3500	U	3500	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	4.7	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	5.1	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	9.7	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	14	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	2.0	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	1400	U	710	U	--	520	U	530	U	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	360	U	180	U	--	520	U	530	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg	360	U	180	U	--			63	J	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	47	J	18	U	200.00	19	U			--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	36	U	18	U	--	19	U	19	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	3.1	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	4.6	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	36	U	18	U	--	19	U	19	U	--
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	36	U	18	U	--	19	U	19	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	79	J	18	U	200.00	19	U	19	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg	360	U	180	U	--			49	J	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	36	U	18	U	--	19	U			--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	5.4	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	1400	U	710	U	--	520	U	530	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	3.9	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg					--					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	720	U	360	U	--	520	U	530	U	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	3.7	U	1.8	U	--	1.7	U	1.7	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg	360	U	180	U	--					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	5.5	J	1.8	U	200.00	1.7	U	1.7	U	--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	360	U	180	U	--	170	U	180	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-283-SA6		SL-283-SA6			SL-155-SA6			SL-155-SA6		
				Sample Name:	DUP17-SA6-QC-120111S		SL-283-SA6-SS-0.0-0.5S			DUP24-SA6-QC-081111			SL-155-SA6-SB-4.0-5.0		
				Sample Date	12/01/2011		11/30/2011			08/11/2011			08/11/2011		
				Start Depth:	0		0			4			4		
				End Depth:	0.5		0.5			5			5		
				Area:	SA6		SA6			SA6			SA6		
				Matrix:	SO		SO			SO			SO		
				Sample Type:	FD Split		Split			FD			N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--						--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--						--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--						--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--						--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--						--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--						--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--						--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--						--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--						--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--						--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--						--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--						--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--						--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--						--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--						--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--						--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--						--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--						--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--						--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--						--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--						--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--						--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--						--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--						--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--						--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--						--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--						--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--						--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--						--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--						--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--						--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--						--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg	11	U	11	U	--						--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg					--						--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg	11	U	11	U	--						--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg					--						--
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg	31		89		96.67						--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg					--						--
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg	49		120		84.02						--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg					--						--
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg	11	U	11	U	--						--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg					--						--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--						--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--						--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--						--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg					--						--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--						--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--						--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--						--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--						--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--						--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--						--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--						--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--						--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--						--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--						--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--						--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--						--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--						--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--						--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--						--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--						--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--						--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--						--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--						--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-171-SA6		SL-171-SA6		
				Sample Name:	DUP-025-SA6-QC-081211		SL-171-SA6-SB-4.0-5.0		
				Sample Date	08/12/2011		08/12/2011		
				Start Depth:	4		4		RPD
				End Depth:	5		5		
				Area:	SA6		SA6		
				Matrix:	SO		SO		
				Sample Type:	FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit					
Inorganic	Aluminum	7429-90-5	6010B	mg/kg	20200		23100		13.39
Inorganic	Aluminum	7429-90-5	6020	mg/kg					--
Inorganic	Antimony	7440-36-0	6020	mg/kg	0.219	UJ	0.0803	J	200.00
Inorganic	Arsenic	7440-38-2	6020	mg/kg	4.67		5.36		13.76
Inorganic	Barium	7440-39-3	6020	mg/kg	95.3		101		5.81
Inorganic	Beryllium	7440-41-7	6020	mg/kg	0.623		0.702		11.92
Inorganic	Boron	7440-42-8	6010B	mg/kg	3.24	J	1.60	J	67.77
Inorganic	Boron	7440-42-8	6020	mg/kg					--
Inorganic	Cadmium	7440-43-9	6020	mg/kg	0.112	J	0.0563	J	66.19
Inorganic	Calcium	7440-70-2	6010B	mg/kg	1920		2220		14.49
Inorganic	Calcium	7440-70-2	6020	mg/kg					--
Inorganic	Chromium	7440-47-3	6020	mg/kg	17.9	J	20.1	J	11.58
Inorganic	Chromium VI	18540-29-9	7199	mg/kg	0.42	J	0.48	J	13.33
Inorganic	Cobalt	7440-48-4	6020	mg/kg	6.35		5.87		7.86
Inorganic	Copper	7440-50-8	6020	mg/kg	11.6	J	10.6	J	9.01
Inorganic	Cyanide	57-12-5	9012B	mg/kg					--
Inorganic	Cyanide	57-12-5	9014	mg/kg					--
Inorganic	Fluoride	16984-48-8	300.0	mg/kg	1.8	J	1.5	J	18.18
Inorganic	Iron	7439-89-6	6010B	mg/kg	25100		24100		4.07
Inorganic	Iron	7439-89-6	6020	mg/kg					--
Inorganic	Lead	7439-92-1	6020	mg/kg	5.44	J	5.49	J	0.91
Inorganic	Lithium	7439-93-2	6010B	mg/kg	26.4		30.8		15.38
Inorganic	Lithium	7439-93-2	6020	mg/kg					--
Inorganic	Magnesium	7439-95-4	6010B	mg/kg	4810		4940		2.67
Inorganic	Magnesium	7439-95-4	6020	mg/kg					--
Inorganic	Manganese	7439-96-5	6010B	mg/kg	271		251		7.66
Inorganic	Manganese	7439-96-5	6020	mg/kg					--
Inorganic	Mercury	7439-97-6	7471A	mg/kg	0.105	U	0.108	U	--
Inorganic	Molybdenum	7439-98-7	6020	mg/kg	0.689		0.672		2.50
Inorganic	Nickel	7440-02-0	6020	mg/kg	14.2		13.6		4.32
Inorganic	Nitrate	14797-55-8	300.0	mg/kg					--
Inorganic	Percent Moisture	MOIST	160.3M	%	8.7		9.8		11.89
Inorganic	Perchlorate	14797-73-0	314.0	ug/kg	32.9	U	33.3	U	--
Inorganic	Perchlorate	14797-73-0	6850	ug/kg					--
Inorganic	pH	pH	9045D	pH unit					--
Inorganic	pH	pH	9045M	pH unit	6.74		6.72		0.30
Inorganic	Phosphorus	7723-14-0	6010B	mg/kg	346	J	272	J	23.95
Inorganic	Phosphorus	7723-14-0	6020	mg/kg					--
Inorganic	Potassium	7440-09-7	6010B	mg/kg	3330	J	2270	J	37.86
Inorganic	Potassium	7440-09-7	6020	mg/kg					--
Inorganic	Selenium	7782-49-2	6020	mg/kg	0.123	J	0.105	J	15.79
Inorganic	Silver	7440-22-4	6020	mg/kg	0.0598	J	0.0499	J	18.05
Inorganic	Sodium	7440-23-5	6010B	mg/kg	83.0	J	101	J	19.57
Inorganic	Sodium	7440-23-5	6020	mg/kg					--
Inorganic	Strontium	7440-24-6	6010B	mg/kg	18.4		19.7		6.82
Inorganic	Strontium	7440-24-6	6020	mg/kg					--
Inorganic	Thallium	7440-28-0	6020	mg/kg	0.288		0.298		3.41
Inorganic	Tin	7440-31-5	6010B	mg/kg	10.4	U	10.6	U	--
Inorganic	Tin	7440-31-5	6020	mg/kg					--
Inorganic	Titanium	7440-32-6	6010B	mg/kg	1190		1260		5.71
Inorganic	Titanium	7440-32-6	6020	mg/kg					--
Inorganic	Vanadium	7440-62-2	6020	mg/kg	38.2		39.8		4.10
Inorganic	Zinc	7440-66-6	6020	mg/kg	53.3		47.0		12.56
Inorganic	Zirconium	7440-67-7	6010B	mg/kg	2.62	J	2.06	J	23.93
Inorganic	Zirconium	7440-67-7	6020	mg/kg					--
Misc. Organics	1,3,5-Trinitrobenzene	99-35-4	8330A	ug/kg					--
Misc. Organics	2,4,6-Trinitrotoluene	118-96-7	8330A	ug/kg					--
Misc. Organics	2,4-Diamino-6-nitrotoluene	6629-29-4	8330A	ug/kg					--
Misc. Organics	2,4-Dinitrotoluene	121-14-2	8330A	ug/kg					--
Misc. Organics	2,6-Diamino-4-nitrotoluene	59229-75-3	8330A	ug/kg					--
Misc. Organics	2,6-Dinitrotoluene	606-20-2	8330A	ug/kg					--
Misc. Organics	2-Amino-4,6-Dinitrotoluene	35572-78-2	8330A	ug/kg					--
Misc. Organics	2-Nitrotoluene	88-72-2	8330A	ug/kg					--
Misc. Organics	2-Propanol	67-63-0	8015B	ug/kg	550	U	550	U	--
Misc. Organics	3-Nitrotoluene	99-08-1	8330A	ug/kg					--
Misc. Organics	4-Amino-2,6-Dinitrotoluene	19406-51-0	8330A	ug/kg					--
Misc. Organics	4-Nitrotoluene	99-99-0	8330A	ug/kg					--
Misc. Organics	Diethylene Glycol	111-46-6	8015M	mg/kg	11	U	11	UJ	--
Misc. Organics	Ethanol	64-17-5	8015B	ug/kg	550	U	550	U	--
Misc. Organics	Ethylene Glycol	107-21-1	8015M	mg/kg	11	U	11	U	--
Misc. Organics	Formaldehyde	50-00-0	8315A	ug/kg					--
Misc. Organics	HMX	2691-41-0	8330A	ug/kg					--
Misc. Organics	m-Dinitrobenzene	99-65-0	8330A	ug/kg					--
Misc. Organics	Methanol	67-56-1	8015B	ug/kg	550	U	550	U	--
Misc. Organics	m-Terphenyl	92-06-8	8015B	mg/kg	3.8	U	3.9	UJ	--
Misc. Organics	Nitrobenzene	98-95-3	8330A	ug/kg					--
Misc. Organics	Nitroglycerin	55-63-0	8330A	ug/kg					--
Misc. Organics	o-Terphenyl	84-15-1	8015B	mg/kg	3.8	U	3.9	U	--
Misc. Organics	PETN	78-11-5	8330A	ug/kg					--
Misc. Organics	Propylene glycol	57-55-6	8015M	mg/kg	11	U	11	U	--
Misc. Organics	p-Terphenyl	92-94-4	8015B	mg/kg	3.8	U	3.9	UJ	--
Misc. Organics	RDX	121-82-4	8330A	ug/kg					--
Misc. Organics	Tetryl	479-45-8	8330A	ug/kg					--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDD	35822-46-9	1613B	ng/kg	5.46	UJ	5.50	UJ	--
PCBs and Dioxins	1,2,3,4,6,7,8-HpCDF	67562-39-4	1613B	ng/kg	5.46	UJ	5.50	UJ	--
PCBs and Dioxins	1,2,3,4,7,8,9-HpCDF	55673-89-7	1613B	ng/kg	0.0360	J	5.50	UJ	200.00
PCBs and Dioxins	1,2,3,4,7,8-HxCDD	39227-28-6	1613B	ng/kg	1.54	J	5.50	UJ	200.00
PCBs and Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B	ng/kg	0.130	J	0.0258	J	133.76
PCBs and Dioxins	1,2,3,6,7,8-HxCDD	57653-85-7	1613B	ng/kg	0.214	J	5.50	UJ	200.00
PCBs and Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B	ng/kg	0.121	J	5.50	UJ	200.00
PCBs and Dioxins	1,2,3,7,8,9-HxCDD	19408-74-3	1613B	ng/kg	5.46	UJ	5.50	UJ	--
PCBs and Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B	ng/kg	5.46	UJ	5.50	UJ	--
PCBs and Dioxins	1,2,3,7,8-PeCDD	40321-76-4	1613B	ng/kg	0.247	J	5.50	UJ	200.00
PCBs and Dioxins	1,2,3,7,8-PeCDF	57117-41-6	1613B	ng/kg	0.291	J	5.50	UJ	200.00
PCBs and Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B	ng/kg	5.46	UJ	5.50	UJ	--
PCBs and Dioxins	2,3,4,7,8-PeCDF	57117-31-4	1613B	ng/kg	5.46	UJ	5.50	UJ	--
PCBs and Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.09	U	1.10	U	--
PCBs and Dioxins	2,3,7,8-TCDF	51207-31-9	1613B	ng/kg	0.0736	J	1.10	UJ	200.00
PCBs and Dioxins	Aroclor 1016	12674-11-2	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1221	11104-28-2	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1232	11141-16-5	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1242	53469-21-9	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1248	12672-29-6	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1254	11097-69-1	8082	ug/kg	1.9	UJ	0.45	J	200.00
PCBs and Dioxins	Aroclor 1260	11096-82-5	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1262	37324-23-5	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 1268	11100-14-4	8082	ug/kg	1.9	U	1.9	U	--
PCBs and Dioxins	Aroclor 5432	63496-31-1	8082	ug/kg	3.6	U	3.7	U	--
PCBs and Dioxins	Aroclor 5442	12642-23-8	8082	ug/kg	3.6	U	3.7	U	--
PCBs and Dioxins	Aroclor 5460	11126-42-4	8082	ug/kg	3.6	U	3.7	U	--
PCBs and Dioxins	OCDD	3268-87-9	1613B	ng/kg	7.46	J	3.27	J	78.10
PCBs and Dioxins	OCDF	39001-02-0	1613B	ng/kg	10.9	U	11.0	U	--
Pesticides	2,2-Dichlor-Propionic Acid	75-99-0	8151A	ug/kg					--
Pesticides	2,4 DB	94-82-6	8151A	ug/kg					--
Pesticides	2,4,5-T	93-76-5	8151A	ug/kg					--
Pesticides	2,4,5-TP	93-72-1	8151A	ug/kg					--
Pesticides	2,4-D	94-75-7	8151A	ug/kg					--
Pesticides	4,4'-DDD	72-54-8	8081A	ug/kg					--
Pesticides	4,4'-DDE	72-55-9	8081A	ug/kg					--
Pesticides	4,4'-DDT	50-29-3	8081A	ug/kg					--
Pesticides	Aldrin	309-00-2	8081A	ug/kg					--
Pesticides	Alpha-BHC	319-84-6	8081A	ug/kg					--
Pesticides	Beta-BHC	319-85-7	8081A	ug/kg					--
Pesticides	Chlordane	57-74-9	8081A	ug/kg					--
Pesticides	Chlordane (technical)	12789-03-6	8081A	ug/kg					--
Pesticides	Delta-BHC	319-86-8	8081A	ug/kg					--
Pesticides	Dicamba	1918-00-9	8151A	ug/kg					--
Pesticides	Dichlorprop	120-36-5	8151A	ug/kg					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-171-SA6		SL-171-SA6		
				Sample Name:	DUP-025-SA6-QC-081211		SL-171-SA6-SB-4.0-5.0		
				Sample Date	08/12/2011		08/12/2011		
				Start Depth:	4		4		RPD
				End Depth:	5		5		
				Area:	SA6		SA6		
				Matrix:	SO		SO		
				Sample Type:	FD		N		
Pesticides	Dieldrin	60-57-1	8081A	ug/kg					--
Pesticides	Dinitrobutyl Phenol	88-85-7	8151A	ug/kg					--
Pesticides	Endosulfan I	959-98-8	8081A	ug/kg					--
Pesticides	Endosulfan II	33213-65-9	8081A	ug/kg					--
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	ug/kg					--
Pesticides	Endrin	72-20-8	8081A	ug/kg					--
Pesticides	Endrin Aldehyde	7421-93-4	8081A	ug/kg					--
Pesticides	Endrin Ketone	53494-70-5	8081A	ug/kg					--
Pesticides	Gamma-BHC (Lindane)	58-89-9	8081A	ug/kg					--
Pesticides	Heptachlor	76-44-8	8081A	ug/kg					--
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	ug/kg					--
Pesticides	MCPA	94-74-6	8151A	ug/kg					--
Pesticides	MCPP	93-65-2	8151A	ug/kg					--
Pesticides	Methoxychlor	72-43-5	8081A	ug/kg					--
Pesticides	Mirex	2385-85-5	8081A	ug/kg					--
Pesticides	Toxaphene	8001-35-2	8081A	ug/kg					--
Semivolatiles	1,2,4-Trichlorobenzene	120-82-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	1,2-Dichlorobenzene	95-50-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	1,2-Diphenylhydrazine	122-66-7	8270C	ug/kg	180	U	180	U	--
Semivolatiles	1,3-Dichlorobenzene	541-73-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	1,4-Dichlorobenzene	106-46-7	8270C	ug/kg	180	U	180	U	--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C	ug/kg					--
Semivolatiles	1-Methylnaphthalene	90-12-0	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	2,4,5-Trichlorophenol	95-95-4	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2,4,6-Trichlorophenol	88-06-2	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2,4-Dichlorophenol	120-83-2	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2,4-Dimethylphenol	105-67-9	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2,4-Dinitrophenol	51-28-5	8270C	ug/kg	1100	UJ	1100	UJ	--
Semivolatiles	2,4-Dinitrotoluene	121-14-2	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2,6-Dinitrotoluene	606-20-2	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2-butoxy-Ethanol	111-76-2	8270C	ug/kg					--
Semivolatiles	2-Chloronaphthalene	91-58-7	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2-Chlorophenol	95-57-8	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C	ug/kg					--
Semivolatiles	2-Methylnaphthalene	91-57-6	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	2-Methylphenol	95-48-7	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2-Nitroaniline	88-74-4	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2-Nitrophenol	88-75-5	8270C	ug/kg	180	U	180	U	--
Semivolatiles	2-phenoxy-Ethanol	122-99-6	8270C	ug/kg					--
Semivolatiles	3,3`-Dichlorobenzidine	91-94-1	8270C	ug/kg	370	U	370	U	--
Semivolatiles	3,5-Dimethylphenol	108-68-9	8270C	ug/kg	180	U	180	U	--
Semivolatiles	3-Nitroaniline	99-09-2	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4,6-Dinitro-2-Methylphenol	534-52-1	8270C	ug/kg	550	UJ	550	UJ	--
Semivolatiles	4-Bromophenyl Phenyl Ether	101-55-3	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4-Chloro-3-Methylphenol	59-50-7	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4-Chloroaniline	106-47-8	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4-Chlorophenyl Phenylether	7005-72-3	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4-Methylphenol	106-44-5	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4-Nitroaniline	100-01-6	8270C	ug/kg	180	U	180	U	--
Semivolatiles	4-Nitrophenol	100-02-7	8270C	ug/kg	550	U	550	U	--
Semivolatiles	Acenaphthene	83-32-9	8270C	ug/kg					--
Semivolatiles	Acenaphthene	83-32-9	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Acenaphthylene	208-96-8	8270C	ug/kg					--
Semivolatiles	Acenaphthylene	208-96-8	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Aniline	62-53-3	8270C	ug/kg	550	U	550	U	--
Semivolatiles	Anthracene	120-12-7	8270C	ug/kg					--
Semivolatiles	Anthracene	120-12-7	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Benzidine	92-87-5	8270C	ug/kg	3700	U	3700	R	--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C	ug/kg					--
Semivolatiles	Benzo(a)anthracene	56-55-3	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C	ug/kg					--
Semivolatiles	Benzo(a)pyrene	50-32-8	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C	ug/kg					--
Semivolatiles	Benzo(b)fluoranthene	205-99-2	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C	ug/kg					--
Semivolatiles	Benzo(g,h,i)perylene	191-24-2	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C	ug/kg					--
Semivolatiles	Benzo(k)fluoranthene	207-08-9	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Benzoic Acid	65-85-0	8270C	ug/kg	550	UJ	550	UJ	--
Semivolatiles	Benzyl Alcohol	100-51-6	8270C	ug/kg	550	U	550	U	--
Semivolatiles	Bis(2-Chloroethoxy) methane	111-91-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Bis(2-Chloroethyl) ether	111-44-4	8270C	ug/kg	180	U	180	U	--
Semivolatiles	bis(2-Chloroisopropyl) ether	39638-32-9	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C	ug/kg					--
Semivolatiles	Bis(2-Ethylhexyl) phthalate	117-81-7	8270C SIM	ug/kg	20	U	20	U	--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C	ug/kg					--
Semivolatiles	Butylbenzylphthalate	85-68-7	8270C SIM	ug/kg	20	U	20	U	--
Semivolatiles	Carbazole	86-74-8	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Chrysene	218-01-9	8270C	ug/kg					--
Semivolatiles	Chrysene	218-01-9	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C	ug/kg					--
Semivolatiles	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Dibenzofuran	132-64-9	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Diethylphthalate	84-66-2	8270C	ug/kg					--
Semivolatiles	Diethylphthalate	84-66-2	8270C SIM	ug/kg	13	J	11	J	16.67
Semivolatiles	Dimethylphthalate	131-11-3	8270C	ug/kg					--
Semivolatiles	Dimethylphthalate	131-11-3	8270C SIM	ug/kg	20	U	20	U	--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C	ug/kg					--
Semivolatiles	Di-n-Butylphthalate	84-74-2	8270C SIM	ug/kg	20	U	20	U	--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C	ug/kg					--
Semivolatiles	Di-N-Octyl Phthalate	117-84-0	8270C SIM	ug/kg	20	U	20	U	--
Semivolatiles	Fluoranthene	206-44-0	8270C	ug/kg					--
Semivolatiles	Fluoranthene	206-44-0	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Fluorene	86-73-7	8270C	ug/kg					--
Semivolatiles	Fluorene	86-73-7	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Hexachlorobenzene	118-74-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Hexachlorobutadiene	87-68-3	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Hexachlorocyclopentadiene	77-47-4	8270C	ug/kg	550	U	550	U	--
Semivolatiles	Hexachloroethane	67-72-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C	ug/kg					--
Semivolatiles	Indeno(1,2,3-Cd)Pyrene	193-39-5	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Isophorone	78-59-1	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Naphthalene	91-20-3	8270C	ug/kg					--
Semivolatiles	Naphthalene	91-20-3	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Nitrobenzene	98-95-3	8270C	ug/kg	180	U	180	U	--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	1625C	ng/kg					--
Semivolatiles	N-Nitrosodimethylamine	62-75-9	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	N-Nitroso-Di-N-Propylamine	621-64-7	8270C	ug/kg	180	U	180	U	--
Semivolatiles	N-Nitrosodiphenylamine	86-30-6	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Pentachlorophenol	87-86-5	8270C	ug/kg	550	UJ	550	UJ	--
Semivolatiles	Phenanthrene	85-01-8	8270C	ug/kg					--
Semivolatiles	Phenanthrene	85-01-8	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Phenol	108-95-2	8270C	ug/kg	180	U	180	U	--
Semivolatiles	Pyrene	129-00-0	8270C	ug/kg					--
Semivolatiles	Pyrene	129-00-0	8270C SIM	ug/kg	1.8	U	1.8	U	--
Semivolatiles	Tetralin	119-64-2	8270C	ug/kg	180	U	180	U	--
Volatiles	1,1,1,2-Tetrachloroethane	630-20-6	8260B	ug/kg					--
Volatiles	1,1,1-Trichloroethane	71-55-6	8260B	ug/kg					--
Volatiles	1,1,2,2-Tetrachloroethane	79-34-5	8260B	ug/kg					--
Volatiles	1,1,2-Trichloroethane	79-00-5	8260B	ug/kg					--
Volatiles	1,1-Dichloroethane	75-34-3	8260B	ug/kg					--
Volatiles	1,1-Dichloroethene	75-35-4	8260B	ug/kg					--
Volatiles	1,1-Dichloropropene	563-58-6	8260B	ug/kg					--
Volatiles	1,2,3-Trichlorobenzene	87-61-6	8260B	ug/kg					--
Volatiles	1,2,3-Trichloropropane	96-18-4	8260B	ug/kg					--
Volatiles	1,2,4-Trichlorobenzene	120-82-1	8260B	ug/kg					--
Volatiles	1,2,4-Trimethylbenzene	95-63-6	8260B	ug/kg					--
Volatiles	1,2-Dibromo-3-chloropropane	96-12-8	8260B	ug/kg					--
Volatiles	1,2-Dibromoethane	106-93-4	8260B	ug/kg					--
Volatiles	1,2-Dichlorobenzene	95-50-1	8260B	ug/kg					--

Table C-7 - Subarea 6 Field Duplicate Results

				Location	SL-171-SA6		SL-171-SA6		
				Sample Name:	DUP-025-SA6-QC-081211		SL-171-SA6-SB-4.0-5.0		
				Sample Date	08/12/2011		08/12/2011		
				Start Depth:	4		4		RPD
				End Depth:	5		5		
				Area:	SA6		SA6		
				Matrix:	SO		SO		
				Sample Type:	FD		N		
Volatiles	1,2-Dichloroethane	107-06-2	8260B	ug/kg					--
Volatiles	1,2-Dichloropropane	78-87-5	8260B	ug/kg					--
Volatiles	1,3,5-Trimethylbenzene	108-67-8	8260B	ug/kg					--
Volatiles	1,3-Dichlorobenzene	541-73-1	8260B	ug/kg					--
Volatiles	1,3-Dichloropropane	142-28-9	8260B	ug/kg					--
Volatiles	1,4-Dichlorobenzene	106-46-7	8260B	ug/kg					--
Volatiles	1,4-Dioxane	123-91-1	8260B SIM	ug/kg					--
Volatiles	2,2-Dichloropropane	594-20-7	8260B	ug/kg					--
Volatiles	2-Butanone	78-93-3	8260B	ug/kg					--
Volatiles	2-Chloroethyl Vinyl Ether	110-75-8	8260B	ug/kg					--
Volatiles	2-Chlorotoluene	95-49-8	8260B	ug/kg					--
Volatiles	2-Hexanone	591-78-6	8260B	ug/kg					--
Volatiles	4-Chlorotoluene	106-43-4	8260B	ug/kg					--
Volatiles	4-Methyl-2-Pentanone	108-10-1	8260B	ug/kg					--
Volatiles	Acetone	67-64-1	8260B	ug/kg					--
Volatiles	Benzene	71-43-2	8260B	ug/kg					--
Volatiles	Bromobenzene	108-86-1	8260B	ug/kg					--
Volatiles	Bromochloromethane	74-97-5	8260B	ug/kg					--
Volatiles	Bromodichloromethane	75-27-4	8260B	ug/kg					--
Volatiles	Bromoform	75-25-2	8260B	ug/kg					--
Volatiles	Bromomethane	74-83-9	8260B	ug/kg					--
Volatiles	Carbon tetrachloride	56-23-5	8260B	ug/kg					--
Volatiles	Chlorobenzene	108-90-7	8260B	ug/kg					--
Volatiles	Chloroethane	75-00-3	8260B	ug/kg					--
Volatiles	Chloroform	67-66-3	8260B	ug/kg					--
Volatiles	Chloromethane	74-87-3	8260B	ug/kg					--
Volatiles	Chlorotrifluoroethene	79-38-9	8260B	ug/kg					--
Volatiles	cis-1,2-Dichloroethene	156-59-2	8260B	ug/kg					--
Volatiles	cis-1,3-Dichloropropene	10061-01-5	8260B	ug/kg					--
Volatiles	Dibromochloromethane	124-48-1	8260B	ug/kg					--
Volatiles	Dibromomethane	74-95-3	8260B	ug/kg					--
Volatiles	Dichlorodifluoromethane	75-71-8	8260B	ug/kg					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg					--
Volatiles	EFH (C12-C14)	PHCC12C14	8015M	mg/kg	1.3	U	1.3	U	--
Volatiles	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg					--
Volatiles	EFH (C15-C20)	PHCC15C20	8015M	mg/kg	1.3	U	1.3	U	--
Volatiles	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg					--
Volatiles	EFH (C21-C30)	PHCC21C30	8015M	mg/kg	1.3	U	1.3	U	--
Volatiles	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg					--
Volatiles	EFH (C30-C40)	PHCC30C40	8015M	mg/kg	1.3	UJ	0.84	J	200.00
Volatiles	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg					--
Volatiles	EFH (C8-C11)	PHCC8C11	8015M	mg/kg	1.3	U	1.3	U	--
Volatiles	Ethylbenzene	100-41-4	8260B	ug/kg					--
Volatiles	Freon 113	76-13-1	8260B	ug/kg					--
Volatiles	Freon 113a	75-88-7	8260B	ug/kg					--
Volatiles	GRO (C5-C12)	GROC5C12	8015M	mg/kg	1.0	U	1	U	--
Volatiles	Hexachlorobutadiene	87-68-3	8260B	ug/kg					--
Volatiles	Isopropylbenzene	98-82-8	8260B	ug/kg					--
Volatiles	Isopropyltoluene	99-87-6	8260B	ug/kg					--
Volatiles	m,p-Xylene	179601-23-1	8260B	ug/kg					--
Volatiles	Methyl tert-Butyl Ether	1634-04-4	8260B	ug/kg					--
Volatiles	Methylene chloride	75-09-2	8260B	ug/kg					--
Volatiles	N-Butylbenzene	104-51-8	8260B	ug/kg					--
Volatiles	N-Propylbenzene	103-65-1	8260B	ug/kg					--
Volatiles	o-Xylene	95-47-6	8260B	ug/kg					--
Volatiles	sec-Butylbenzene	135-98-8	8260B	ug/kg					--
Volatiles	Styrene	100-42-5	8260B	ug/kg					--
Volatiles	tert-Butylbenzene	98-06-6	8260B	ug/kg					--
Volatiles	Tetrachloroethene	127-18-4	8260B	ug/kg					--
Volatiles	Toluene	108-88-3	8260B	ug/kg					--
Volatiles	trans-1,2-Dichloroethene	156-60-5	8260B	ug/kg					--
Volatiles	trans-1,3-Dichloropropene	10061-02-6	8260B	ug/kg					--
Volatiles	Trichloroethene	79-01-6	8260B	ug/kg					--
Volatiles	Trichlorofluoromethane	75-69-4	8260B	ug/kg					--
Volatiles	Vinyl Chloride	75-01-4	8260B	ug/kg					--

ug/kg - microgram per kilogram
mg/kg - milligram per kilogram
ng/g - nanogram per kilogram
FD - field duplicate sample
N - normal sample
RPD - relative percent difference
SO - soil
-- - RPD not calculated when both field duplicate and normal samples were nondetect or only one sample result is reported

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 results only were estimated "J"

Table C-8 Summary of Data Completeness Following Data Validation – Subarea 3

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	20	89		105	7	221	100
NDMA				7			100
Formaldehyde	1			6		7	100
Cyanide				7		7	100
Fluoride, Nitrate	7	8		3	2	20	100
Hexavalent Chromium		5		8		13	100
Mercury		3		10		13	100
Metals – 6010B	119	43		20		182	100
Metals – 6020	59	139		4	6	208	100
Perchlorate-314					13		100
Perchlorate-6850							100
Alcohols, terphenyls				42		42	100
Energetics				115	11	126	100
Total Petroleum Hydrocarbons, glycols	4	6		49	3	62	100
PCBs/PCTs	6	8		130	12	156	100
Pesticides	2	4		36		42	100
Herbicides	1	2	2	15		20	90
Semivolatiles		4	2	604	5	615	99.68
Semivolatiles SIM	20	42		260		322	100
Completeness Total for All Subarea 3 Samples Collected and Judged Valid							**99.8**

Table C-9 Summary of Data Completeness Following Data Validation – Subarea 6

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	1058	2854		2363	66	6341	100
NDMA	5	2		105	1	113	100
Fluoride, Nitrate	148	229	2	62	47	488	99.6
Hexavalent Chromium	30	219		117	7	373	100
Mercury	39	158		172	4	373	100
Metals – 6010B	3393	1136		690	3	5222	100
Metals – 6020	1479	4243	20	50	176	5968	99.59
Perchlorate-314	1			369	3	373	100
Perchlorate-6850	1	3		56		60	100
Alcohols, terphenyls	4	38	32	1563	37	1674	98.1
Total Petroleum Hydrocarbons, glycols	471	195	5	1715	80	2466	99.8
PCBs/PCTs	328	183	10	3826	153	4500	99.78
Pesticides	171	263	81	2175	376	3066	97.36
Herbicides	80	85	109	1131	55	1460	92.54
Volatiles	6	30		2223	86	2345	100
Volatiles SIM				35		35	100
Semivolatiles	55	492	39	18001	362	18949	99.8
Semivolatiles SIM	879	1010	8	6307	82	8286	99.9
Formaldehyde	2	10		100	1	113	100
Energetics		1		1921	4	1926	100
Cyanide				119		119	100
Completeness Total for All Subarea 6 Samples Collected and Judged Valid							**99.53**

Table C-1. Samples by SDG SA3

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA3	SL-001-SA3-SS-0.0-0.5	DE253	SO	9/26/2011	FIELD
SA3	SL-002-SA3-SS-0.0-0.5	DE253	SO	9/26/2011	FIELD
SA3	SL-009-SA3-SB-4.0-5.0	DE266	SO	10/11/2011	FIELD
	TB-101111	DE266	SO	10/11/2011	FIELD
SA3	DUP01-SA3-QC-101211	DE267	SO	10/12/2011	FIELD
SA3	EB-SA3-SB-101211	DE267	WQ	10/12/2011	FIELD
SA3	SL-011-SA3-SB-4.0-5.0	DE267	SO	10/12/2011	FIELD
	TB-101211	DE267	SO	10/12/2011	FIELD
SA3	SL-005-SA3-SB-4.0-5.0	DE268	SO	10/13/2011	FIELD
SA3	SL-005-SA3-SB-7.5-8.5	DE268	SO	10/13/2011	FIELD
	TB-101311	DE268	SO	10/13/2011	FIELD
SA3	EB-SA3-SB-101411	DE269	WQ	10/14/2011	FIELD
SA3	SL-006-SA3-SB-4.0-5.0	DE269	SO	10/13/2011	FIELD
SA3	SL-006-SA3-SB-9.0-10.0	DE269	SO	10/13/2011	FIELD
	TB-101411	DE269	SO	10/14/2011	FIELD
SA3	EB-SA3-SB-110711	DE281	WQ	11/7/2011	FIELD
SA3	SL-001-SA3-SB-2.0-3.0	DE281	SO	11/7/2011	FIELD
SA3	SL-004-SA3-SB-4.0-5.0	DE281	SO	11/7/2011	FIELD
SA3	SL-004-SA3-SB-7.0-8.0	DE281	SO	11/7/2011	FIELD
SA3	SL-010-SA3-SB-3.0-4.0	DE281	SO	11/7/2011	FIELD
SA3	SL-013-SA3-SB-0.5-1.5	DE281	SO	11/7/2011	FIELD
	TB-110711	DE281	SO	11/7/2011	FIELD
SA3	SL-001-SA3-SS-0.0-0.5	DX142	SO	9/26/2011	FIELD
SA3	SL-002-SA3-SS-0.0-0.5	DX142	SO	9/26/2011	FIELD
SA3	SL-009-SA3-SB-4.0-5.0	DX148	SO	10/11/2011	FIELD
SA3	DUP01-SA3-QC-101211	DX149	SO	10/12/2011	FIELD
SA3	EB-SA3-SB-101211	DX149	WQ	10/12/2011	FIELD
SA3	SL-006-SA3-SB-4.0-5.0	DX149	SO	10/13/2011	FIELD
SA3	SL-006-SA3-SB-9.0-10.0	DX149	SO	10/13/2011	FIELD
SA3	SL-011-SA3-SB-4.0-5.0	DX149	SO	10/12/2011	FIELD
SA3	SL-005-SA3-SB-4.0-5.0	DX150	SO	10/13/2011	FIELD
SA3	SL-005-SA3-SB-7.5-8.5	DX150	SO	10/13/2011	FIELD
SA3	SL-001-SA3-SB-2.0-3.0	DX154	SO	11/7/2011	FIELD
SA3	SL-004-SA3-SB-4.0-5.0	DX154	SO	11/7/2011	FIELD
SA3	SL-004-SA3-SB-7.0-8.0	DX154	SO	11/7/2011	FIELD
SA3	SL-010-SA3-SB-3.0-4.0	DX154	SO	11/7/2011	FIELD
SA3	SL-013-SA3-SB-0.5-1.5	DX154	SO	11/7/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP17-SA6-QC-120111S	11L003	SO	12/1/2011	FIELD
SA6	EB-SA6-SB-120111S	11L003	WQ	12/1/2011	FIELD
SA6	SL-282-SA6-SB-2.5-3.5S	11L003	SO	11/30/2011	FIELD
SA6	SL-282-SA6-SB-3.0	11L003	SO	11/30/2011	FIELD
SA6	SL-282-SA6-SS-0.0-0.5S	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-14.0-15.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-14.5	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-18.0-19.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-18.5	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-4.0-5.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-4.5	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-9.0-10.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-9.5	11L003	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SS-0.0-0.5S	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-14.0-15.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-14.5	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-15.5-16.5S	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-16.0	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-4.0-5.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-4.5	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-9.0-10.0S	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-9.5	11L003	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SS-0.0-0.5S	11L003	SO	11/30/2011	FIELD
SA6	SL-285-SA6-SB-4.0-5.0S	11L003	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SB-4.5	11L003	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SB-6.0-7.0S	11L003	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SB-7.5	11L003	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SS-0.0-0.5S	11L003	SO	11/29/2011	FIELD
	TB-113011S	11L003	AQ	11/30/2011	FIELD
SA6	DUP01-SA6-QC-071111	DE197	SO	7/11/2011	FIELD
SA6	SL-135-SA6-SB-4.0-5.0	DE197	SO	7/11/2011	FIELD
SA6	SL-138-SA6-SB-4.0-5.0	DE197	SO	7/11/2011	FIELD
SA6	SL-138-SA6-SB-9.0-10.0	DE197	SO	7/11/2011	FIELD
SA6	SL-149-SA6-SS-0.0-0.5	DE197	SO	7/11/2011	FIELD
SA6	SL-292-SA6-SS-0.0-0.5	DE197	SO	7/11/2011	FIELD
SA6	SL-297-SA6-SS-0.0-0.5	DE197	SO	7/11/2011	FIELD
SA6	SL-298-SA6-SS-0.0-0.5	DE197	SO	7/11/2011	FIELD
	TB-070911	DE197	AQ	7/11/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SS-071211	DE198	WQ	7/12/2011	FIELD
SA6	SL-098-SA6-SS-0.0-0.5	DE198	SO	7/12/2011	FIELD
SA6	SL-109-SA6-SS-0.0-0.5	DE198	SO	7/12/2011	FIELD
SA6	SL-110-SA6-SS-0.0-0.5	DE198	SO	7/12/2011	FIELD
SA6	SL-113-SA6-SS-0.0-0.5	DE198	SO	7/12/2011	FIELD
SA6	SL-136-SA6-SB-4.0-5.0	DE198	SO	7/12/2011	FIELD
SA6	SL-136-SA6-SB-9.0-10.0	DE198	SO	7/12/2011	FIELD
SA6	SL-139-SA6-SB-4.0-5.0	DE198	SO	7/12/2011	FIELD
SA6	SL-139-SA6-SB-9.0-10.0	DE198	SO	7/12/2011	FIELD
SA6	SL-275-SA6-SB-4.0-5.0	DE198	SO	7/12/2011	FIELD
SA6	SL-275-SA6-SB-9.0-10.0	DE198	SO	7/12/2011	FIELD
SA6	SL-276-SA6-SB-4.0-5.0	DE198	SO	7/12/2011	FIELD
SA6	SL-276-SA6-SB-9.0-10.0	DE198	SO	7/12/2011	FIELD
SA6	SL-289-SA6-SS-0.0-0.5	DE198	SO	7/11/2011	FIELD
SA6	SL-290-SA6-SS-0.0-0.5	DE198	SO	7/12/2011	FIELD
SA6	SL-291-SA6-SS-0.0-0.5	DE198	SO	7/11/2011	FIELD
	TB-071211	DE198	AQ	7/12/2011	FIELD
SA6	EB-SA6-SB-071311	DE199	WQ	7/13/2011	FIELD
SA6	EB-SA6-SS-071311	DE199	WQ	7/13/2011	FIELD
SA6	SL-030-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-035-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-040-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-046-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-047-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-059-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-066-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-067-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-072-SA6-SB-4.0-5.0	DE199	SO	7/13/2011	FIELD
SA6	SL-072-SA6-SB-9.0-10.0	DE199	SO	7/13/2011	FIELD
SA6	SL-083-SA6-SB-4.0-5.0	DE199	SO	7/13/2011	FIELD
SA6	SL-083-SA6-SB-9.0-10.0	DE199	SO	7/13/2011	FIELD
SA6	SL-116-SA6-SB-2.5-3.5	DE199	SO	7/13/2011	FIELD
SA6	SL-118-SA6-SB-10.5-11.5	DE199	SO	7/13/2011	FIELD
SA6	SL-118-SA6-SB-4.0-5.0	DE199	SO	7/13/2011	FIELD
SA6	SL-278-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-279-SA6-SS-0.0-0.5	DE199	SO	7/13/2011	FIELD
SA6	SL-280-SA6-SS-0.0-0.5	DE199	SO	7/12/2011	FIELD
SA6	SL-281-SA6-SS-0.0-0.5	DE199	SO	7/12/2011	FIELD
SA6	SL-300-SA6-SS-0.0-0.5	DE199	SO	7/12/2011	FIELD
	TB-071311	DE199	AQ	7/13/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP02-SA6-QC-071411	DE200	SO	7/14/2011	FIELD
SA6	SL-037-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-048-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-049-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-050-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-051-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-052-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-053-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-054-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-055-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-060-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-063-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-064-SA6-SS-0.0-0.5	DE200	SO	7/14/2011	FIELD
SA6	SL-071-SA6-SB-4.0-5.0	DE200	SO	7/14/2011	FIELD
SA6	SL-071-SA6-SB-6.0-7.0	DE200	SO	7/14/2011	FIELD
SA6	SL-074-SA6-SB-4.0-5.0	DE200	SO	7/14/2011	FIELD
SA6	SL-074-SA6-SB-9.0-10.0	DE200	SO	7/14/2011	FIELD
SA6	SL-088-SA6-SB-4.0-5.0	DE200	SO	7/14/2011	FIELD
SA6	SL-088-SA6-SB-9.0-10.0	DE200	SO	7/14/2011	FIELD
	TB-071411	DE200	AQ	7/14/2011	FIELD
SA6	DUP03-SA6-QC-071511	DE201	SO	7/14/2011	FIELD
SA6	SL-004-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-005-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-020-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-029-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-043-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-044-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-056-SA6-SS-0.0-0.5	DE201	SO	7/13/2011	FIELD
SA6	SL-058-SA6-SS-0.0-0.5	DE201	SO	7/13/2011	FIELD
SA6	SL-126-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-286-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-302-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-303-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-304-SA6-SS-0.0-0.5	DE201	SO	7/14/2011	FIELD
SA6	SL-127-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-128-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-133-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-134-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-142-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-143-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-145-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-146-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-147-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-148-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-150-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-152-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-155-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-176-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-182-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-183-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-184-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD
SA6	SL-293-SA6-SS-0.0-0.5	DE202	SO	7/18/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SS-071911	DE203	WQ	7/19/2011	FIELD
SA6	SL-084-SA6-SB-4.0-5.0	DE203	SO	7/19/2011	FIELD
SA6	SL-084-SA6-SB-9.0-10.0	DE203	SO	7/19/2011	FIELD
SA6	SL-085-SA6-SB-4.0-5.0	DE203	SO	7/19/2011	FIELD
SA6	SL-085-SA6-SB-7.0-8.0	DE203	SO	7/19/2011	FIELD
SA6	SL-151-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-154-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-166-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-168-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-169-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-171-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-172-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-174-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-178-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-185-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
SA6	SL-301-SA6-SS-0.0-0.5	DE203	SO	7/19/2011	FIELD
	TB-071911	DE203	AQ	7/19/2011	FIELD
SA6	DUP04-SA6-QC-072011	DE204	SO	7/20/2011	FIELD
SA6	EB-SA6-SB-072011	DE204	WQ	7/20/2011	FIELD
SA6	SL-086-SA6-SB-4.0-5.0	DE204	SO	7/20/2011	FIELD
SA6	SL-086-SA6-SB-9.0-10.0	DE204	SO	7/20/2011	FIELD
SA6	SL-097-SA6-SB-1.5-2.5	DE204	SO	7/20/2011	FIELD
SA6	SL-156-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-157-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-159-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-160-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-162-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-164-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-165-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-167-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-215-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-218-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-220-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-310-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-321-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
SA6	SL-322-SA6-SS-0.0-0.5	DE204	SO	7/20/2011	FIELD
	TB-072011	DE204	AQ	7/20/2011	FIELD
SA6	SL-211-SA6-SS-0.0-0.5	DE205	SO	7/21/2011	FIELD
SA6	SL-214-SA6-SS-0.0-0.5	DE205	SO	7/21/2011	FIELD
SA6	SL-216-SA6-SS-0.0-0.5	DE205	SO	7/21/2011	FIELD
SA6	SL-219-SA6-SS-0.0-0.5	DE205	SO	7/21/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP05-SA6-QC-072111	DE206	SO	7/21/2011	FIELD
SA6	DUP06-SA6-QC-072111	DE206	SO	7/21/2011	FIELD
SA6	SL-073-SA6-SB-4.0-5.0	DE206	SO	7/21/2011	FIELD
SA6	SL-081-SA6-SB-4.0-5.0	DE206	SO	7/21/2011	FIELD
SA6	SL-081-SA6-SB-9.0-10.0	DE206	SO	7/21/2011	FIELD
SA6	SL-104-SA6-SB-2.5-3.5	DE206	SO	7/21/2011	FIELD
SA6	SL-105-SA6-SB-2.5-3.5	DE206	SO	7/21/2011	FIELD
SA6	SL-228-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
SA6	SL-237-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
SA6	SL-240-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
SA6	SL-314-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
SA6	SL-315-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
SA6	SL-316-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
SA6	SL-318-SA6-SS-0.0-0.5	DE206	SO	7/21/2011	FIELD
	TB-072111	DE206	AQ	7/21/2011	FIELD
SA6	SL-075-SA6-SB-4.0-5.0	DE207	SO	7/22/2011	FIELD
SA6	SL-075-SA6-SB-9.0-10.0	DE207	SO	7/22/2011	FIELD
SA6	SL-082-SA6-SB-4.0-5.0	DE207	SO	7/22/2011	FIELD
SA6	SL-082-SA6-SB-9.0-10.0	DE207	SO	7/22/2011	FIELD
SA6	SL-103-SA6-SB-4.0-5.0	DE207	SO	7/22/2011	FIELD
SA6	SL-103-SA6-SB-9.0-10.0	DE207	SO	7/22/2011	FIELD
SA6	SL-124-SA6-SB-12.5-13.5	DE207	SO	7/22/2011	FIELD
SA6	SL-124-SA6-SB-4.0-5.0	DE207	SO	7/22/2011	FIELD
SA6	SL-233-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-238-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-241-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-242-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-243-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-244-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-307-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-308-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
SA6	SL-309-SA6-SS-0.0-0.5	DE207	SO	7/22/2011	FIELD
	TB-072211	DE207	AQ	7/22/2011	FIELD
SA6	DUP07-SA6-QC-072511	DE208	SO	7/25/2011	FIELD
SA6	SL-098-SA6-SB-2.0-3.0	DE208	SO	7/25/2011	FIELD
SA6	SL-190-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-192-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-193-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-235-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-236-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-245-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-253-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-254-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-255-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-256-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-268-SA6-SS-0.0-0.5	DE208	SO	7/25/2011	FIELD
SA6	SL-289-SA6-SB-3.5-4.5	DE208	SO	7/25/2011	FIELD
	TB-072511	DE208	AQ	7/25/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP08-SA6-QC-072611	DE209	SO	7/26/2011	FIELD
SA6	EB-SA6-SS-072611	DE209	WQ	7/26/2011	FIELD
SA6	SL-012-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-013-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-077-SA6-SB-4.0-5.0	DE209	SO	7/26/2011	FIELD
SA6	SL-077-SA6-SB-9.0-10.0	DE209	SO	7/26/2011	FIELD
SA6	SL-080-SA6-SB-3.5-4.5	DE209	SO	7/26/2011	FIELD
SA6	SL-204-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-205-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-206-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-213-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-217-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-311-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-317-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
SA6	SL-319-SA6-SS-0.0-0.5	DE209	SO	7/26/2011	FIELD
	TB-072611	DE209	AQ	7/26/2011	FIELD
SA6	DUP09-SA6-QC-072711	DE210	SO	7/27/2011	FIELD
SA6	EB-SA6-SB-072711	DE210	WQ	7/27/2011	FIELD
SA6	SL-009-SA6-SS-0.0-0.5	DE210	SO	7/27/2011	FIELD
SA6	SL-017-SA6-SS-0.0-0.5	DE210	SO	7/27/2011	FIELD
SA6	SL-028-SA6-SS-0.0-0.5	DE210	SO	7/27/2011	FIELD
SA6	SL-069-SA6-SB-4.0-5.0	DE210	SO	7/27/2011	FIELD
SA6	SL-069-SA6-SB-9.0-10.0	DE210	SO	7/27/2011	FIELD
SA6	SL-076-SA6-SB-2.0-3.0	DE210	SO	7/27/2011	FIELD
SA6	SL-089-SA6-SB-4.0-5.0	DE210	SO	7/27/2011	FIELD
SA6	SL-089-SA6-SB-9.0-10.0	DE210	SO	7/27/2011	FIELD
SA6	SL-117-SA6-SB-2.0-3.0	DE210	SO	7/27/2011	FIELD
	TB-072711	DE210	AQ	7/27/2011	FIELD
SA6	SL-068-SA6-SB-19.0-20.0	DE211	SO	7/28/2011	FIELD
SA6	SL-068-SA6-SB-4.0-5.0	DE211	SO	7/28/2011	FIELD
SA6	SL-070-SA6-SB-19.0-20.0	DE211	SO	7/28/2011	FIELD
SA6	SL-070-SA6-SB-4.0-5.0	DE211	SO	7/28/2011	FIELD
SA6	SL-090-SA6-SB-3.0-4.0	DE211	SO	7/28/2011	FIELD
	TB-072811	DE211	AQ	7/28/2011	FIELD
SA6	DUP10-SA6-QC-072911	DE212	SO	7/29/2011	FIELD
SA6	SL-122-SA6-SB-0.0-0.5	DE212	SO	7/29/2011	FIELD
SA6	SL-123-SA6-SB-4.0-5.0	DE212	SO	7/29/2011	FIELD
SA6	SL-123-SA6-SB-7.0-8.0	DE212	SO	7/29/2011	FIELD
SA6	SL-125-SA6-SB-20.0-21.0	DE212	SO	7/29/2011	FIELD
SA6	SL-125-SA6-SB-4.0-5.0	DE212	SO	7/29/2011	FIELD
SA6	SL-126-SA6-SB-4.0-5.0	DE212	SO	7/29/2011	FIELD
SA6	SL-126-SA6-SB-9.0-10.0	DE212	SO	7/29/2011	FIELD
	TB-072911	DE212	AQ	7/29/2011	FIELD
SA6	SL-127-SA6-SB-2.0-3.0	DE213	SO	8/1/2011	FIELD
	TB-080111	DE213	AQ	8/1/2011	FIELD
SA6	EB-SA6-SB-080211	DE214	WQ	8/2/2011	FIELD
SA6	SL-128-SA6-SB-4.0-5.0	DE214	SO	8/2/2011	FIELD
SA6	SL-128-SA6-SB-7.5-8.5	DE214	SO	8/2/2011	FIELD
SA6	SL-145-SA6-SB-3.5-4.5	DE214	SO	8/2/2011	FIELD
	TB-080211	DE214	AQ	8/2/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	SL-002-SA6-SB-4.0-5.0	DE215	SO	8/3/2011	FIELD
SA6	SL-002-SA6-SB-9.0-10.0	DE215	SO	8/3/2011	FIELD
SA6	SL-003-SA6-SB-4.0-5.0	DE215	SO	8/3/2011	FIELD
SA6	SL-003-SA6-SB-8.5-9.5	DE215	SO	8/3/2011	FIELD
SA6	SL-004-SA6-SB-1.5-2.5	DE215	SO	8/3/2011	FIELD
SA6	SL-011-SA6-SB-0.5-1.5	DE215	SO	8/3/2011	FIELD
SA6	DUP11-SA6-QC-080411	DE217	SO	8/4/2011	FIELD
SA6	SL-006-SA6-SB-4.0-5.0	DE217	SO	8/4/2011	FIELD
SA6	SL-006-SA6-SB-9.0-10.0	DE217	SO	8/4/2011	FIELD
SA6	SL-014-SA6-SB-4.0-5.0	DE217	SO	8/4/2011	FIELD
SA6	SL-014-SA6-SB-9.0-10.0	DE217	SO	8/4/2011	FIELD
SA6	SL-019-SA6-SB-4.0-5.0	DE217	SO	8/4/2011	FIELD
SA6	SL-019-SA6-SB-9.0-10.0	DE217	SO	8/4/2011	FIELD
SA6	SL-024-SA6-SB-4.0-5.0	DE217	SO	8/4/2011	FIELD
SA6	SL-024-SA6-SB-9.0-10.0	DE217	SO	8/4/2011	FIELD
SA6	SL-025-SA6-SB-4.0-5.0	DE217	SO	8/4/2011	FIELD
SA6	SL-025-SA6-SB-9.0-10.0	DE217	SO	8/4/2011	FIELD
SA6	SL-010-SA6-SB-4.0-5.0	DE218	SO	8/5/2011	FIELD
SA6	SL-022-SA6-SB-0.0-1.0	DE218	SO	8/5/2011	FIELD
SA6	SL-023-SA6-SB-0.0-1.0	DE218	SO	8/5/2011	FIELD
SA6	SL-114-SA6-SB-4.0-5.0	DE218	SO	8/5/2011	FIELD
SA6	SL-114-SA6-SB-9.0-10.0	DE218	SO	8/5/2011	FIELD
	TB-080511	DE218	AQ	8/5/2011	FIELD
SA6	SL-031-SA6-SB-4.0-5.0	DE219	SO	8/8/2011	FIELD
SA6	SL-031-SA6-SB-9.0-10.0	DE219	SO	8/8/2011	FIELD
SA6	SL-273-SA6-SB-4.0-5.0	DE219	SO	8/8/2011	FIELD
SA6	SL-273-SA6-SB-9.0-10.0	DE219	SO	8/8/2011	FIELD
	TB-080811	DE219	AQ	8/8/2011	FIELD
SA6	EB-SA6-SB-080911	DE220	WQ	8/9/2011	FIELD
SA6	SL-042-SA6-SB-2.5-3.5	DE220	SO	8/9/2011	FIELD
SA6	SL-044-SA6-SB-2.5-3.5	DE220	SO	8/9/2011	FIELD
SA6	SL-049-SA6-SB-2.5-3.5	DE220	SO	8/9/2011	FIELD
	TB-080911	DE220	AQ	8/9/2011	FIELD
SA6	SL-151-SA6-SB-4.0-5.0	DE221	SO	8/10/2011	FIELD
SA6	SL-151-SA6-SB-9.0-10.0	DE221	SO	8/10/2011	FIELD
SA6	SL-182-SA6-SB-4.0-5.0	DE221	SO	8/10/2011	FIELD
SA6	SL-182-SA6-SB-9.0-10.0	DE221	SO	8/10/2011	FIELD
SA6	SL-183-SA6-SB-4.0-5.0	DE221	SO	8/10/2011	FIELD
SA6	SL-183-SA6-SB-9.0-10.0	DE221	SO	8/10/2011	FIELD
SA6	SL-185-SA6-SB-4.0-5.0	DE221	SO	8/10/2011	FIELD
SA6	SL-185-SA6-SB-9.0-10.0	DE221	SO	8/10/2011	FIELD
SA6	DUP24-SA6-QC-081111	DE222	SO	8/11/2011	FIELD
SA6	SL-033-SA6-SB-2.5-3.5	DE222	SO	8/11/2011	FIELD
SA6	SL-155-SA6-SB-4.0-5.0	DE222	SO	8/11/2011	FIELD
SA6	SL-174-SA6-SB-2.0-3.0	DE222	SO	8/11/2011	FIELD
	TB-081111	DE222	AQ	8/11/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP-025-SA6-QC-081211	DE223	SO	8/12/2011	FIELD
SA6	SL-038-SA6-SB-0.5-1.5	DE223	SO	8/12/2011	FIELD
SA6	SL-065-SA6-SB-1.5-2.5	DE223	SO	8/12/2011	FIELD
SA6	SL-168-SA6-SB-2.0-3.0	DE223	SO	8/12/2011	FIELD
SA6	SL-171-SA6-SB-4.0-5.0	DE223	SO	8/12/2011	FIELD
SA6	SL-280-SA6-SB-4.0-5.0	DE223	SO	8/12/2011	FIELD
	TB-081211	DE223	AQ	8/12/2011	FIELD
SA6	SL-156-SA6-SB-3.0-4.0	DE224	SO	8/15/2011	FIELD
SA6	SL-157-SA6-SB-2.0-3.0	DE224	SO	8/15/2011	FIELD
SA6	SL-166-SA6-SB-3.0-4.0	DE224	SO	8/15/2011	FIELD
SA6	SL-167-SA6-SB-3.0-4.0	DE224	SO	8/15/2011	FIELD
	TB-081511	DE224	AQ	8/15/2011	FIELD
SA6	SL-159-SA6-SB-4.0-5.0	DE225	SO	8/16/2011	FIELD
SA6	SL-159-SA6-SB-7.0-8.0	DE225	SO	8/16/2011	FIELD
SA6	SL-160-SA6-SB-4.0-5.0	DE225	SO	8/16/2011	FIELD
SA6	SL-164-SA6-SB-4.0-5.0	DE225	SO	8/16/2011	FIELD
SA6	SL-164-SA6-SB-8.0-9.0	DE225	SO	8/16/2011	FIELD
SA6	SL-321-SA6-SB-2.0-3.0	DE225	SO	8/16/2011	FIELD
	TB-081611	DE225	AQ	8/16/2011	FIELD
SA6	DUP12-SA6-QC-081711	DE226	SO	8/17/2011	FIELD
SA6	EB-SA6-SB-081711	DE226	WQ	8/17/2011	FIELD
SA6	SL-154-SA6-SB-3.0-4.0	DE226	SO	8/17/2011	FIELD
SA6	SL-221-SA6-SB-1.0-2.0	DE226	SO	8/17/2011	FIELD
SA6	SL-223-SA6-SB-2.5-3.5	DE226	SO	8/17/2011	FIELD
SA6	SL-224-SA6-SB-3.0-4.0	DE226	SO	8/17/2011	FIELD
SA6	SL-226-SA6-SB-3.5-4.5	DE226	SO	8/17/2011	FIELD
	TB-081711	DE226	AQ	8/17/2011	FIELD
SA6	SL-211-SA6-SB-1.5-2.5	DE227	SO	8/18/2011	FIELD
SA6	SL-219-SA6-SB-2.5-3.5	DE227	SO	8/18/2011	FIELD
SA6	SL-228-SA6-SB-4.0-5.0	DE227	SO	8/18/2011	FIELD
SA6	SL-314-SA6-SB-3.0-4.0	DE227	SO	8/18/2011	FIELD
	TB-081811	DE227	AQ	8/18/2011	FIELD
SA6	SL-214-SA6-SB-1.0-2.0	DE228	SO	8/19/2011	FIELD
SA6	SL-315-SA6-SB-3.0-4.0	DE228	SO	8/19/2011	FIELD
	TB-081911	DE228	AQ	8/19/2011	FIELD
SA6	SL-215-SA6-SB-4.0-5.0	DE229	SO	8/22/2011	FIELD
SA6	SL-241-SA6-SB-4.0-5.0	DE229	SO	8/22/2011	FIELD
SA6	SL-241-SA6-SB-9.0-10.0	DE229	SO	8/22/2011	FIELD
SA6	SL-242-SA6-SB-4.0-5.0	DE229	SO	8/22/2011	FIELD
SA6	SL-242-SA6-SB-9.0-10.0	DE229	SO	8/22/2011	FIELD
SA6	SL-279-SA6-SB-1.0-2.0	DE229	SO	8/22/2011	FIELD
SA6	SL-279-SA6-SB-4.0-5.0	DE229	SO	8/22/2011	FIELD
SA6	SL-279-SA6-SB-9.0-10.0	DE229	SO	8/22/2011	FIELD
SA6	SL-310-SA6-SB-4.0-5.0	DE229	SO	8/22/2011	FIELD
	TB-082211	DE229	AQ	8/22/2011	FIELD
SA6	EB-SA6-SB-082311	DE230	WQ	8/23/2011	FIELD
SA6	SL-030-SA6-SB-4.0-5.0	DE230	SO	8/23/2011	FIELD
SA6	SL-030-SA6-SB-9.0-10.0	DE230	SO	8/23/2011	FIELD
SA6	SL-035-SA6-SB-2.5-3.5	DE230	SO	8/23/2011	FIELD
SA6	SL-040-SA6-SB-4.0-5.0	DE230	SO	8/23/2011	FIELD
	TB-082311	DE230	AQ	8/23/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SB-082411	DE231	WQ	8/24/2011	FIELD
SA6	SL-066-SA6-SB-2.0-3.0	DE231	SO	8/24/2011	FIELD
SA6	SL-197-SA6-SB-4.0-5.0	DE231	SO	8/24/2011	FIELD
SA6	SL-208-SA6-SB-4.0-5.0	DE231	SO	8/24/2011	FIELD
	TB-082411	DE231	AQ	8/24/2011	FIELD
SA6	SL-041-SA6-SB-3.0-4.0	DE232	SO	8/25/2011	FIELD
SA6	SL-195-SA6-SB-1.0-2.0	DE232	SO	8/25/2011	FIELD
SA6	SL-246-SA6-SB-4.0-5.0	DE232	SO	8/25/2011	FIELD
SA6	SL-247-SA6-SB-4.0-5.0	DE232	SO	8/25/2011	FIELD
SA6	SL-257-SA6-SB-1.5-2.5	DE232	SO	8/25/2011	FIELD
	TB-082511	DE232	AQ	8/25/2011	FIELD
SA6	DUP13-SA6-QC-082611	DE233	SO	8/26/2011	FIELD
SA6	SL-113-SA6-SB-4.0-5.0	DE233	SO	8/26/2011	FIELD
SA6	SL-113-SA6-SB-7.0-8.0	DE233	SO	8/26/2011	FIELD
SA6	SL-250-SA6-SB-3.0-4.0	DE233	SO	8/26/2011	FIELD
SA6	SL-252-SA6-SB-4.0-5.0	DE233	SO	8/26/2011	FIELD
SA6	SL-256-SA6-SB-2.5-3.5	DE233	SO	8/26/2011	FIELD
SA6	SL-291-SA6-SB-2.0-3.0	DE233	SO	8/26/2011	FIELD
	TB-082611	DE233	AQ	8/26/2011	FIELD
SA6	SL-192-SA6-SB-4.0-5.0	DE234	SO	8/29/2011	FIELD
SA6	SL-192-SA6-SB-9.0-10.0	DE234	SO	8/29/2011	FIELD
SA6	SL-249-SA6-SB-4.0-5.0	DE234	SO	8/29/2011	FIELD
SA6	SL-253-SA6-SB-4.0-5.0	DE234	SO	8/29/2011	FIELD
SA6	SL-255-SA6-SB-2.0-3.0	DE234	SO	8/29/2011	FIELD
	TB-082911	DE234	AQ	8/29/2011	FIELD
SA6	EB-SA6-SB-083011	DE235	WQ	8/30/2011	FIELD
SA6	SL-267-SA6-SB-4.0-5.0	DE235	SO	8/30/2011	FIELD
SA6	SL-267-SA6-SB-9.0-10.0	DE235	SO	8/30/2011	FIELD
SA6	SL-305-SA6-SB-2.0-3.0	DE235	SO	8/30/2011	FIELD
SA6	SL-305-SA6-SS-0.0-0.5	DE235	SO	8/30/2011	FIELD
SA6	SL-306-SA6-SB-4.0-5.0	DE235	SO	8/30/2011	FIELD
SA6	SL-306-SA6-SS-0.0-0.5	DE235	SO	8/30/2011	FIELD
	TB-083011	DE235	AQ	8/30/2011	FIELD
SA6	SL-198-SA6-SB-4.0-5.0	DE236	SO	8/31/2011	FIELD
SA6	SL-198-SA6-SB-9.0-10.0	DE236	SO	8/31/2011	FIELD
SA6	SL-199-SA6-SB-4.0-5.0	DE236	SO	8/31/2011	FIELD
SA6	SL-200-SA6-SB-4.0-5.0	DE236	SO	8/31/2011	FIELD
SA6	SL-201-SA6-SB-2.0-3.0	DE236	SO	8/31/2011	FIELD
SA6	SL-213-SA6-SB-4.0-5.0	DE236	SO	8/31/2011	FIELD
SA6	SL-270-SA6-SB-2.0-3.0	DE236	SO	8/31/2011	FIELD
	TB-083111	DE236	AQ	8/31/2011	FIELD
SA6	DUP14-SA6-QC-090111	DE237	SO	9/1/2011	FIELD
SA6	SL-258-SA6-SB-0.0-0.83	DE237	SO	9/1/2011	FIELD
SA6	SL-262-SA6-SB-4.0-5.0	DE237	SO	9/1/2011	FIELD
SA6	SL-264-SA6-SB-0.4-1.4	DE237	SO	9/1/2011	FIELD
SA6	SL-266-SA6-SB-4.0-5.0	DE237	SO	9/1/2011	FIELD
	TB-090111	DE237	AQ	9/1/2011	FIELD
SA6	SL-204-SA6-SB-4.0-5.0	DE238	SO	9/6/2011	FIELD
SA6	SL-261-SA6-SB-1.5-2.5	DE238	SO	9/6/2011	FIELD
SA6	SL-261-SA6-SB-9.0-10.0	DE238	SO	9/6/2011	FIELD
SA6	SL-263-SA6-SB-4.0-5.0	DE238	SO	9/6/2011	FIELD
SA6	SL-263-SA6-SB-9.0-10.0	DE238	SO	9/6/2011	FIELD
	TB-090611	DE238	AQ	9/6/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SB-090711	DE239	WQ	9/7/2011	FIELD
SA6	SL-205-SA6-SB-4.0-5.0	DE239	SO	9/7/2011	FIELD
SA6	SL-311-SA6-SB-2.0-3.0	DE239	SO	9/7/2011	FIELD
	TB-090711	DE239	AQ	9/7/2011	FIELD
SA6	DUP15-SA6-QC-090911	DE240	SO	9/9/2011	FIELD
SA6	SL-001-SA6-SB-0.0-1.0	DE240	SO	9/9/2011	FIELD
SA6	SL-210-SA6-SB-4.0-5.0	DE240	SO	9/9/2011	FIELD
SA6	SL-210-SA6-SB-9.0-10.0	DE240	SO	9/9/2011	FIELD
SA6	SL-217-SA6-SB-4.0-5.0	DE240	SO	9/9/2011	FIELD
SA6	SL-217-SA6-SB-7.5-8.5	DE240	SO	9/9/2011	FIELD
	TB-090911	DE240	AQ	9/9/2011	FIELD
SA6	SL-050-SA6-SB-1.0-2.0	DE241	SO	9/12/2011	FIELD
SA6	SL-051-SA6-SB-3.5-4.5	DE241	SO	9/12/2011	FIELD
SA6	SL-055-SA6-SB-2.0-3.0	DE241	SO	9/12/2011	FIELD
SA6	SL-235-SA6-SB-4.0-5.0	DE241	SO	9/12/2011	FIELD
SA6	SL-269-SA6-SB-1.5-2.5	DE241	SO	9/12/2011	FIELD
	TB-091211	DE241	AQ	9/12/2011	FIELD
SA6	EB-SA6-SB-100311	DE260	WQ	10/3/2011	FIELD
SA6	SL-064-SA6-SB-4.0-5.0	DE260	SO	10/3/2011	FIELD
SA6	SL-064-SA6-SB-9.0-10.0	DE260	SO	10/3/2011	FIELD
	TB-100311	DE260	SO	10/3/2011	FIELD
SA6	EB-SA6-SB-100411	DE261	WQ	10/4/2011	FIELD
SA6	SL-007-SA6-SB-1.0-2.0	DE261	SO	10/4/2011	FIELD
SA6	SL-037-SA6-SB-4.0-5.0	DE261	SO	10/4/2011	FIELD
SA6	SL-037-SA6-SB-9.0-10.0	DE261	SO	10/4/2011	FIELD
SA6	SL-191-SA6-SB-0.0-1.0	DE261	SO	10/4/2011	FIELD
SA6	SL-206-SA6-SB-4.0-5.0	DE261	SO	10/4/2011	FIELD
SA6	SL-225-SA6-SB-3.0-4.0	DE261	SO	10/4/2011	FIELD
	TB-100411	DE261	SO	10/4/2011	FIELD
SA6	DUP16-SA6-QC-100511	DE262	SO	10/5/2011	FIELD
SA6	EB-SA6-SB-100511	DE262	WQ	10/5/2011	FIELD
SA6	EB-SA6-SB-NDMA-100511	DE262	WQ	10/5/2011	FIELD
SA6	SL-301-SA6-SB-4.0-5.0	DE262	SO	10/5/2011	FIELD
SA6	SL-319-SA6-SB-4.0-5.0	DE262	SO	10/5/2011	FIELD
	TB-100511	DE262	SO	10/5/2011	FIELD
SA6	EB-SA6-SB-100611	DE263	WQ	10/6/2011	FIELD
SA6	EB-SA6-SB-NDMA-100611	DE263	WQ	10/6/2011	FIELD
SA6	SL-229-SA6-SB-2.0-3.0	DE263	SO	10/6/2011	FIELD
SA6	SL-229-SA6-SS-0.0-0.5	DE263	SO	10/6/2011	FIELD
SA6	SL-230-SA6-SB-4.0-5.0	DE263	SO	10/6/2011	FIELD
SA6	SL-230-SA6-SS-0.0-0.5	DE263	SO	10/6/2011	FIELD
SA6	SL-232-SA6-SB-2.5-3.5	DE263	SO	10/6/2011	FIELD
SA6	SL-232-SA6-SS-0.0-0.5	DE263	SO	10/6/2011	FIELD
SA6	SL-234-SA6-SS-0.0-0.5	DE263	SO	10/6/2011	FIELD
SA6	SL-254-SA6-SB-2.5-3.5	DE263	SO	10/6/2011	FIELD
SA6	SL-268-SA6-SB-4.0-5.0	DE263	SO	10/6/2011	FIELD
	TB-100611	DE263	SO	10/6/2011	FIELD
SA6	SL-265-SA6-SB-4.0-5.0	DE266	SO	10/11/2011	FIELD
	TB-101111	DE266	SO	10/11/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SB-113011	DE290	AQ	11/30/2011	FIELD
SA6	SL-282-SA6-SB-2.5-3.5	DE290	SO	11/30/2011	FIELD
SA6	SL-282-SA6-SS-0.0-0.5	DE290	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-14.0-15.0	DE290	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-18.0-19.0	DE290	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-4.0-5.0	DE290	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-9.0-10.0	DE290	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SS-0.0-0.5	DE290	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-14.0-15.0	DE290	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-15.5-16.5	DE290	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-4.0-5.0	DE290	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-9.0-10.0	DE290	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SS-0.0-0.5	DE290	SO	11/30/2011	FIELD
SA6	SL-285-SA6-SB-4.0-5.0	DE290	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SB-6.0-7.0	DE290	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SS-0.0-0.5	DE290	SO	11/29/2011	FIELD
	TB-113011	DE290	SO	11/30/2011	FIELD
SA6	DUP17-SA6-QC-120111	DE291	SO	12/1/2011	FIELD
SA6	EB-SA6-SB-120111	DE291	AQ	12/1/2011	FIELD
SA6	DUP01-SA6-QC-071111	DX110	SO	7/11/2011	FIELD
SA6	SL-135-SA6-SB-4.0-5.0	DX110	SO	7/11/2011	FIELD
SA6	SL-136-SA6-SB-4.0-5.0	DX110	SO	7/12/2011	FIELD
SA6	SL-136-SA6-SB-9.0-10.0	DX110	SO	7/12/2011	FIELD
SA6	SL-138-SA6-SB-4.0-5.0	DX110	SO	7/11/2011	FIELD
SA6	SL-138-SA6-SB-9.0-10.0	DX110	SO	7/11/2011	FIELD
SA6	SL-139-SA6-SB-4.0-5.0	DX110	SO	7/12/2011	FIELD
SA6	SL-139-SA6-SB-9.0-10.0	DX110	SO	7/12/2011	FIELD
SA6	SL-149-SA6-SS-0.0-0.5	DX110	SO	7/11/2011	FIELD
SA6	SL-275-SA6-SB-4.0-5.0	DX110	SO	7/12/2011	FIELD
SA6	SL-275-SA6-SB-9.0-10.0	DX110	SO	7/12/2011	FIELD
SA6	SL-276-SA6-SB-4.0-5.0	DX110	SO	7/12/2011	FIELD
SA6	SL-276-SA6-SB-9.0-10.0	DX110	SO	7/12/2011	FIELD
SA6	SL-289-SA6-SS-0.0-0.5	DX110	SO	7/11/2011	FIELD
SA6	SL-292-SA6-SS-0.0-0.5	DX110	SO	7/11/2011	FIELD
SA6	SL-297-SA6-SS-0.0-0.5	DX110	SO	7/11/2011	FIELD
SA6	SL-298-SA6-SS-0.0-0.5	DX110	SO	7/11/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SS-071211	DX111	WQ	7/12/2011	FIELD
SA6	SL-030-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-035-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-040-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-047-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-059-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-066-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-067-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-098-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-109-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-110-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-113-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-278-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-279-SA6-SS-0.0-0.5	DX111	SO	7/13/2011	FIELD
SA6	SL-280-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-281-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-290-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	SL-291-SA6-SS-0.0-0.5	DX111	SO	7/11/2011	FIELD
SA6	SL-300-SA6-SS-0.0-0.5	DX111	SO	7/12/2011	FIELD
SA6	EB-SA6-SB-071311	DX112	WQ	7/13/2011	FIELD
SA6	SL-037-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-046-SA6-SS-0.0-0.5	DX112	SO	7/13/2011	FIELD
SA6	SL-048-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-049-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-050-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-051-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-052-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-053-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-054-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-055-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-060-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-063-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-064-SA6-SS-0.0-0.5	DX112	SO	7/14/2011	FIELD
SA6	SL-072-SA6-SB-4.0-5.0	DX112	SO	7/13/2011	FIELD
SA6	SL-072-SA6-SB-9.0-10.0	DX112	SO	7/13/2011	FIELD
SA6	SL-083-SA6-SB-4.0-5.0	DX112	SO	7/13/2011	FIELD
SA6	SL-083-SA6-SB-9.0-10.0	DX112	SO	7/13/2011	FIELD
SA6	SL-116-SA6-SB-2.5-3.5	DX112	SO	7/13/2011	FIELD
SA6	SL-118-SA6-SB-10.5-11.5	DX112	SO	7/13/2011	FIELD
SA6	SL-118-SA6-SB-4.0-5.0	DX112	SO	7/13/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP02-SA6-QC-071411	DX113	SO	7/14/2011	FIELD
SA6	SL-071-SA6-SB-4.0-5.0	DX113	SO	7/14/2011	FIELD
SA6	SL-071-SA6-SB-6.0-7.0	DX113	SO	7/14/2011	FIELD
SA6	SL-074-SA6-SB-4.0-5.0	DX113	SO	7/14/2011	FIELD
SA6	SL-074-SA6-SB-9.0-10.0	DX113	SO	7/14/2011	FIELD
SA6	SL-088-SA6-SB-4.0-5.0	DX113	SO	7/14/2011	FIELD
SA6	SL-088-SA6-SB-9.0-10.0	DX113	SO	7/14/2011	FIELD
SA6	SL-127-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-128-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-133-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-134-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-142-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-143-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-145-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-146-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-147-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-148-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-150-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-152-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	SL-155-SA6-SS-0.0-0.5	DX113	SO	7/18/2011	FIELD
SA6	DUP03-SA6-QC-071511	DX114	SO	7/14/2011	FIELD
SA6	SL-004-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-005-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-020-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-029-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-043-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-044-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-056-SA6-SS-0.0-0.5	DX114	SO	7/13/2011	FIELD
SA6	SL-058-SA6-SS-0.0-0.5	DX114	SO	7/13/2011	FIELD
SA6	SL-126-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-176-SA6-SS-0.0-0.5	DX114	SO	7/18/2011	FIELD
SA6	SL-182-SA6-SS-0.0-0.5	DX114	SO	7/18/2011	FIELD
SA6	SL-183-SA6-SS-0.0-0.5	DX114	SO	7/18/2011	FIELD
SA6	SL-184-SA6-SS-0.0-0.5	DX114	SO	7/18/2011	FIELD
SA6	SL-286-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-293-SA6-SS-0.0-0.5	DX114	SO	7/18/2011	FIELD
SA6	SL-302-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-303-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD
SA6	SL-304-SA6-SS-0.0-0.5	DX114	SO	7/14/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SS-071911	DX115	WQ	7/19/2011	FIELD
SA6	SL-084-SA6-SB-4.0-5.0	DX115	SO	7/19/2011	FIELD
SA6	SL-084-SA6-SB-9.0-10.0	DX115	SO	7/19/2011	FIELD
SA6	SL-085-SA6-SB-4.0-5.0	DX115	SO	7/19/2011	FIELD
SA6	SL-085-SA6-SB-7.0-8.0	DX115	SO	7/19/2011	FIELD
SA6	SL-151-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-154-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-156-SA6-SS-0.0-0.5	DX115	SO	7/20/2011	FIELD
SA6	SL-157-SA6-SS-0.0-0.5	DX115	SO	7/20/2011	FIELD
SA6	SL-159-SA6-SS-0.0-0.5	DX115	SO	7/20/2011	FIELD
SA6	SL-160-SA6-SS-0.0-0.5	DX115	SO	7/20/2011	FIELD
SA6	SL-166-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-168-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-169-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-171-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-172-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-174-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-178-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-185-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	SL-301-SA6-SS-0.0-0.5	DX115	SO	7/19/2011	FIELD
SA6	DUP04-SA6-QC-072011	DX116	SO	7/20/2011	FIELD
SA6	EB-SA6-SB-072011	DX116	WQ	7/20/2011	FIELD
SA6	SL-086-SA6-SB-4.0-5.0	DX116	SO	7/20/2011	FIELD
SA6	SL-086-SA6-SB-9.0-10.0	DX116	SO	7/20/2011	FIELD
SA6	SL-097-SA6-SB-1.5-2.5	DX116	SO	7/20/2011	FIELD
SA6	SL-162-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-164-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-165-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-167-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-211-SA6-SS-0.0-0.5	DX116	SO	7/21/2011	FIELD
SA6	SL-214-SA6-SS-0.0-0.5	DX116	SO	7/21/2011	FIELD
SA6	SL-215-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-216-SA6-SS-0.0-0.5	DX116	SO	7/21/2011	FIELD
SA6	SL-218-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-219-SA6-SS-0.0-0.5	DX116	SO	7/21/2011	FIELD
SA6	SL-220-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-310-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-321-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD
SA6	SL-322-SA6-SS-0.0-0.5	DX116	SO	7/20/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP05-SA6-QC-072111	DX117	SO	7/21/2011	FIELD
SA6	DUP06-SA6-QC-072111	DX117	SO	7/21/2011	FIELD
SA6	SL-073-SA6-SB-4.0-5.0	DX117	SO	7/21/2011	FIELD
SA6	SL-081-SA6-SB-4.0-5.0	DX117	SO	7/21/2011	FIELD
SA6	SL-081-SA6-SB-9.0-10.0	DX117	SO	7/21/2011	FIELD
SA6	SL-104-SA6-SB-2.5-3.5	DX117	SO	7/21/2011	FIELD
SA6	SL-105-SA6-SB-2.5-3.5	DX117	SO	7/21/2011	FIELD
SA6	SL-228-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	SL-233-SA6-SS-0.0-0.5	DX117	SO	7/22/2011	FIELD
SA6	SL-237-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	SL-238-SA6-SS-0.0-0.5	DX117	SO	7/22/2011	FIELD
SA6	SL-240-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	SL-241-SA6-SS-0.0-0.5	DX117	SO	7/22/2011	FIELD
SA6	SL-242-SA6-SS-0.0-0.5	DX117	SO	7/22/2011	FIELD
SA6	SL-243-SA6-SS-0.0-0.5	DX117	SO	7/22/2011	FIELD
SA6	SL-244-SA6-SS-0.0-0.5	DX117	SO	7/22/2011	FIELD
SA6	SL-314-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	SL-315-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	SL-316-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	SL-318-SA6-SS-0.0-0.5	DX117	SO	7/21/2011	FIELD
SA6	DUP07-SA6-QC-072511	DX118	SO	7/25/2011	FIELD
SA6	SL-075-SA6-SB-4.0-5.0	DX118	SO	7/22/2011	FIELD
SA6	SL-075-SA6-SB-9.0-10.0	DX118	SO	7/22/2011	FIELD
SA6	SL-082-SA6-SB-4.0-5.0	DX118	SO	7/22/2011	FIELD
SA6	SL-082-SA6-SB-9.0-10.0	DX118	SO	7/22/2011	FIELD
SA6	SL-098-SA6-SB-2.0-3.0	DX118	SO	7/25/2011	FIELD
SA6	SL-103-SA6-SB-4.0-5.0	DX118	SO	7/22/2011	FIELD
SA6	SL-103-SA6-SB-9.0-10.0	DX118	SO	7/22/2011	FIELD
SA6	SL-124-SA6-SB-12.5-13.5	DX118	SO	7/22/2011	FIELD
SA6	SL-124-SA6-SB-4.0-5.0	DX118	SO	7/22/2011	FIELD
SA6	SL-289-SA6-SB-3.5-4.5	DX118	SO	7/25/2011	FIELD
SA6	SL-307-SA6-SS-0.0-0.5	DX118	SO	7/22/2011	FIELD
SA6	SL-308-SA6-SS-0.0-0.5	DX118	SO	7/22/2011	FIELD
SA6	SL-309-SA6-SS-0.0-0.5	DX118	SO	7/22/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	SL-012-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-013-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-190-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-192-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-193-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-204-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-205-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-206-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-213-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-217-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-235-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-236-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-245-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-253-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-254-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-255-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-256-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-268-SA6-SS-0.0-0.5	DX119	SO	7/25/2011	FIELD
SA6	SL-317-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	SL-319-SA6-SS-0.0-0.5	DX119	SO	7/26/2011	FIELD
SA6	DUP08-SA6-QC-072611	DX120	SO	7/26/2011	FIELD
SA6	DUP09-SA6-QC-072711	DX120	SO	7/27/2011	FIELD
SA6	EB-SA6-SB-072711	DX120	WQ	7/27/2011	FIELD
SA6	EB-SA6-SS-072611	DX120	WQ	7/26/2011	FIELD
SA6	SL-009-SA6-SS-0.0-0.5	DX120	SO	7/27/2011	FIELD
SA6	SL-017-SA6-SS-0.0-0.5	DX120	SO	7/27/2011	FIELD
SA6	SL-028-SA6-SS-0.0-0.5	DX120	SO	7/27/2011	FIELD
SA6	SL-069-SA6-SB-4.0-5.0	DX120	SO	7/27/2011	FIELD
SA6	SL-069-SA6-SB-9.0-10.0	DX120	SO	7/27/2011	FIELD
SA6	SL-076-SA6-SB-2.0-3.0	DX120	SO	7/27/2011	FIELD
SA6	SL-077-SA6-SB-4.0-5.0	DX120	SO	7/26/2011	FIELD
SA6	SL-077-SA6-SB-9.0-10.0	DX120	SO	7/26/2011	FIELD
SA6	SL-080-SA6-SB-3.5-4.5	DX120	SO	7/26/2011	FIELD
SA6	SL-089-SA6-SB-4.0-5.0	DX120	SO	7/27/2011	FIELD
SA6	SL-089-SA6-SB-9.0-10.0	DX120	SO	7/27/2011	FIELD
SA6	SL-117-SA6-SB-2.0-3.0	DX120	SO	7/27/2011	FIELD
SA6	SL-311-SA6-SS-0.0-0.5	DX120	SO	7/26/2011	FIELD
SA6	SL-068-SA6-SB-19.0-20.0	DX121	SO	7/28/2011	FIELD
SA6	SL-068-SA6-SB-4.0-5.0	DX121	SO	7/28/2011	FIELD
SA6	SL-070-SA6-SB-19.0-20.0	DX121	SO	7/28/2011	FIELD
SA6	SL-070-SA6-SB-4.0-5.0	DX121	SO	7/28/2011	FIELD
SA6	SL-090-SA6-SB-3.0-4.0	DX121	SO	7/28/2011	FIELD
SA6	SL-122-SA6-SB-0.0-0.5	DX121	SO	7/29/2011	FIELD
SA6	SL-123-SA6-SB-4.0-5.0	DX121	SO	7/29/2011	FIELD
SA6	SL-123-SA6-SB-7.0-8.0	DX121	SO	7/29/2011	FIELD
SA6	DUP10-SA6-QC-072911	DX122	SO	7/29/2011	FIELD
SA6	SL-125-SA6-SB-20.0-21.0	DX122	SO	7/29/2011	FIELD
SA6	SL-125-SA6-SB-4.0-5.0	DX122	SO	7/29/2011	FIELD
SA6	SL-126-SA6-SB-4.0-5.0	DX122	SO	7/29/2011	FIELD
SA6	SL-126-SA6-SB-9.0-10.0	DX122	SO	7/29/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	EB-SA6-SB-080211	DX123	WQ	8/2/2011	FIELD
SA6	SL-127-SA6-SB-2.0-3.0	DX123	SO	8/1/2011	FIELD
SA6	SL-128-SA6-SB-4.0-5.0	DX123	SO	8/2/2011	FIELD
SA6	SL-128-SA6-SB-7.5-8.5	DX123	SO	8/2/2011	FIELD
SA6	SL-145-SA6-SB-3.5-4.5	DX123	SO	8/2/2011	FIELD
SA6	SL-002-SA6-SB-4.0-5.0	DX124	SO	8/3/2011	FIELD
SA6	SL-002-SA6-SB-9.0-10.0	DX124	SO	8/3/2011	FIELD
SA6	SL-003-SA6-SB-4.0-5.0	DX124	SO	8/3/2011	FIELD
SA6	SL-003-SA6-SB-8.5-9.5	DX124	SO	8/3/2011	FIELD
SA6	SL-004-SA6-SB-1.5-2.5	DX124	SO	8/3/2011	FIELD
SA6	SL-011-SA6-SB-0.5-1.5	DX124	SO	8/3/2011	FIELD
SA6	DUP11-SA6-QC-080411	DX125	SO	8/4/2011	FIELD
SA6	SL-006-SA6-SB-4.0-5.0	DX125	SO	8/4/2011	FIELD
SA6	SL-006-SA6-SB-9.0-10.0	DX125	SO	8/4/2011	FIELD
SA6	SL-010-SA6-SB-4.0-5.0	DX125	SO	8/5/2011	FIELD
SA6	SL-014-SA6-SB-4.0-5.0	DX125	SO	8/4/2011	FIELD
SA6	SL-014-SA6-SB-9.0-10.0	DX125	SO	8/4/2011	FIELD
SA6	SL-019-SA6-SB-4.0-5.0	DX125	SO	8/4/2011	FIELD
SA6	SL-019-SA6-SB-9.0-10.0	DX125	SO	8/4/2011	FIELD
SA6	SL-022-SA6-SB-0.0-1.0	DX125	SO	8/5/2011	FIELD
SA6	SL-023-SA6-SB-0.0-1.0	DX125	SO	8/5/2011	FIELD
SA6	SL-024-SA6-SB-4.0-5.0	DX125	SO	8/4/2011	FIELD
SA6	SL-024-SA6-SB-9.0-10.0	DX125	SO	8/4/2011	FIELD
SA6	SL-025-SA6-SB-4.0-5.0	DX125	SO	8/4/2011	FIELD
SA6	SL-025-SA6-SB-9.0-10.0	DX125	SO	8/4/2011	FIELD
SA6	SL-114-SA6-SB-4.0-5.0	DX125	SO	8/5/2011	FIELD
SA6	SL-114-SA6-SB-9.0-10.0	DX125	SO	8/5/2011	FIELD
SA6	EB-SA6-SB-080911	DX126	WQ	8/9/2011	FIELD
SA6	SL-031-SA6-SB-4.0-5.0	DX126	SO	8/8/2011	FIELD
SA6	SL-031-SA6-SB-9.0-10.0	DX126	SO	8/8/2011	FIELD
SA6	SL-042-SA6-SB-2.5-3.5	DX126	SO	8/9/2011	FIELD
SA6	SL-044-SA6-SB-2.5-3.5	DX126	SO	8/9/2011	FIELD
SA6	SL-049-SA6-SB-2.5-3.5	DX126	SO	8/9/2011	FIELD
SA6	SL-273-SA6-SB-4.0-5.0	DX126	SO	8/8/2011	FIELD
SA6	SL-273-SA6-SB-9.0-10.0	DX126	SO	8/8/2011	FIELD
SA6	DUP24-SA6-QC-081111	DX127	SO	8/11/2011	FIELD
SA6	SL-033-SA6-SB-2.5-3.5	DX127	SO	8/11/2011	FIELD
SA6	SL-151-SA6-SB-4.0-5.0	DX127	SO	8/10/2011	FIELD
SA6	SL-151-SA6-SB-9.0-10.0	DX127	SO	8/10/2011	FIELD
SA6	SL-155-SA6-SB-4.0-5.0	DX127	SO	8/11/2011	FIELD
SA6	SL-174-SA6-SB-2.0-3.0	DX127	SO	8/11/2011	FIELD
SA6	SL-182-SA6-SB-4.0-5.0	DX127	SO	8/10/2011	FIELD
SA6	SL-182-SA6-SB-9.0-10.0	DX127	SO	8/10/2011	FIELD
SA6	SL-183-SA6-SB-4.0-5.0	DX127	SO	8/10/2011	FIELD
SA6	SL-183-SA6-SB-9.0-10.0	DX127	SO	8/10/2011	FIELD
SA6	SL-185-SA6-SB-4.0-5.0	DX127	SO	8/10/2011	FIELD
SA6	SL-185-SA6-SB-9.0-10.0	DX127	SO	8/10/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP-025-SA6-QC-081211	DX128	SO	8/12/2011	FIELD
SA6	SL-038-SA6-SB-0.5-1.5	DX128	SO	8/12/2011	FIELD
SA6	SL-065-SA6-SB-1.5-2.5	DX128	SO	8/12/2011	FIELD
SA6	SL-156-SA6-SB-3.0-4.0	DX128	SO	8/15/2011	FIELD
SA6	SL-157-SA6-SB-2.0-3.0	DX128	SO	8/15/2011	FIELD
SA6	SL-159-SA6-SB-4.0-5.0	DX128	SO	8/16/2011	FIELD
SA6	SL-159-SA6-SB-7.0-8.0	DX128	SO	8/16/2011	FIELD
SA6	SL-160-SA6-SB-4.0-5.0	DX128	SO	8/16/2011	FIELD
SA6	SL-164-SA6-SB-4.0-5.0	DX128	SO	8/16/2011	FIELD
SA6	SL-164-SA6-SB-8.0-9.0	DX128	SO	8/16/2011	FIELD
SA6	SL-166-SA6-SB-3.0-4.0	DX128	SO	8/15/2011	FIELD
SA6	SL-167-SA6-SB-3.0-4.0	DX128	SO	8/15/2011	FIELD
SA6	SL-168-SA6-SB-2.0-3.0	DX128	SO	8/12/2011	FIELD
SA6	SL-171-SA6-SB-4.0-5.0	DX128	SO	8/12/2011	FIELD
SA6	SL-211-SA6-SB-1.5-2.5	DX128	SO	8/18/2011	FIELD
SA6	SL-219-SA6-SB-2.5-3.5	DX128	SO	8/18/2011	FIELD
SA6	SL-228-SA6-SB-4.0-5.0	DX128	SO	8/18/2011	FIELD
SA6	SL-280-SA6-SB-4.0-5.0	DX128	SO	8/12/2011	FIELD
SA6	SL-314-SA6-SB-3.0-4.0	DX128	SO	8/18/2011	FIELD
SA6	SL-321-SA6-SB-2.0-3.0	DX128	SO	8/16/2011	FIELD
SA6	DUP12-SA6-QC-081711	DX129	SO	8/17/2011	FIELD
SA6	EB-SA6-SB-081711	DX129	WQ	8/17/2011	FIELD
SA6	SL-154-SA6-SB-3.0-4.0	DX129	SO	8/17/2011	FIELD
SA6	SL-214-SA6-SB-1.0-2.0	DX129	SO	8/19/2011	FIELD
SA6	SL-215-SA6-SB-4.0-5.0	DX129	SO	8/22/2011	FIELD
SA6	SL-221-SA6-SB-1.0-2.0	DX129	SO	8/17/2011	FIELD
SA6	SL-223-SA6-SB-2.5-3.5	DX129	SO	8/17/2011	FIELD
SA6	SL-224-SA6-SB-3.0-4.0	DX129	SO	8/17/2011	FIELD
SA6	SL-226-SA6-SB-3.5-4.5	DX129	SO	8/17/2011	FIELD
SA6	SL-241-SA6-SB-4.0-5.0	DX129	SO	8/22/2011	FIELD
SA6	SL-241-SA6-SB-9.0-10.0	DX129	SO	8/22/2011	FIELD
SA6	SL-242-SA6-SB-4.0-5.0	DX129	SO	8/22/2011	FIELD
SA6	SL-242-SA6-SB-9.0-10.0	DX129	SO	8/22/2011	FIELD
SA6	SL-279-SA6-SB-1.0-2.0	DX129	SO	8/22/2011	FIELD
SA6	SL-279-SA6-SB-4.0-5.0	DX129	SO	8/22/2011	FIELD
SA6	SL-279-SA6-SB-9.0-10.0	DX129	SO	8/22/2011	FIELD
SA6	SL-310-SA6-SB-4.0-5.0	DX129	SO	8/22/2011	FIELD
SA6	SL-315-SA6-SB-3.0-4.0	DX129	SO	8/19/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP13-SA6-QC-082611	DX130	SO	8/26/2011	FIELD
SA6	EB-SA6-SB-082311	DX130	WQ	8/23/2011	FIELD
SA6	EB-SA6-SB-082411	DX130	WQ	8/24/2011	FIELD
SA6	SL-030-SA6-SB-4.0-5.0	DX130	SO	8/23/2011	FIELD
SA6	SL-030-SA6-SB-9.0-10.0	DX130	SO	8/23/2011	FIELD
SA6	SL-035-SA6-SB-2.5-3.5	DX130	SO	8/23/2011	FIELD
SA6	SL-040-SA6-SB-4.0-5.0	DX130	SO	8/23/2011	FIELD
SA6	SL-041-SA6-SB-3.0-4.0	DX130	SO	8/25/2011	FIELD
SA6	SL-066-SA6-SB-2.0-3.0	DX130	SO	8/24/2011	FIELD
SA6	SL-113-SA6-SB-4.0-5.0	DX130	SO	8/26/2011	FIELD
SA6	SL-113-SA6-SB-7.0-8.0	DX130	SO	8/26/2011	FIELD
SA6	SL-195-SA6-SB-1.0-2.0	DX130	SO	8/25/2011	FIELD
SA6	SL-197-SA6-SB-4.0-5.0	DX130	SO	8/24/2011	FIELD
SA6	SL-208-SA6-SB-4.0-5.0	DX130	SO	8/24/2011	FIELD
SA6	SL-246-SA6-SB-4.0-5.0	DX130	SO	8/25/2011	FIELD
SA6	SL-247-SA6-SB-4.0-5.0	DX130	SO	8/25/2011	FIELD
SA6	SL-250-SA6-SB-3.0-4.0	DX130	SO	8/26/2011	FIELD
SA6	SL-252-SA6-SB-4.0-5.0	DX130	SO	8/26/2011	FIELD
SA6	SL-256-SA6-SB-2.5-3.5	DX130	SO	8/26/2011	FIELD
SA6	SL-257-SA6-SB-1.5-2.5	DX130	SO	8/25/2011	FIELD
SA6	SL-291-SA6-SB-2.0-3.0	DX130	SO	8/26/2011	FIELD
SA6	EB-SA6-SB-083011	DX131	WQ	8/30/2011	FIELD
SA6	SL-192-SA6-SB-4.0-5.0	DX131	SO	8/29/2011	FIELD
SA6	SL-192-SA6-SB-9.0-10.0	DX131	SO	8/29/2011	FIELD
SA6	SL-198-SA6-SB-4.0-5.0	DX131	SO	8/31/2011	FIELD
SA6	SL-198-SA6-SB-9.0-10.0	DX131	SO	8/31/2011	FIELD
SA6	SL-199-SA6-SB-4.0-5.0	DX131	SO	8/31/2011	FIELD
SA6	SL-200-SA6-SB-4.0-5.0	DX131	SO	8/31/2011	FIELD
SA6	SL-201-SA6-SB-2.0-3.0	DX131	SO	8/31/2011	FIELD
SA6	SL-213-SA6-SB-4.0-5.0	DX131	SO	8/31/2011	FIELD
SA6	SL-249-SA6-SB-4.0-5.0	DX131	SO	8/29/2011	FIELD
SA6	SL-253-SA6-SB-4.0-5.0	DX131	SO	8/29/2011	FIELD
SA6	SL-255-SA6-SB-2.0-3.0	DX131	SO	8/29/2011	FIELD
SA6	SL-267-SA6-SB-4.0-5.0	DX131	SO	8/30/2011	FIELD
SA6	SL-267-SA6-SB-9.0-10.0	DX131	SO	8/30/2011	FIELD
SA6	SL-270-SA6-SB-2.0-3.0	DX131	SO	8/31/2011	FIELD
SA6	SL-305-SA6-SB-2.0-3.0	DX131	SO	8/30/2011	FIELD
SA6	SL-305-SA6-SS-0.0-0.5	DX131	SO	8/30/2011	FIELD
SA6	SL-306-SA6-SB-4.0-5.0	DX131	SO	8/30/2011	FIELD
SA6	SL-306-SA6-SS-0.0-0.5	DX131	SO	8/30/2011	FIELD
SA6	DUP14-SA6-QC-090111	DX132	SO	9/1/2011	FIELD
SA6	EB-SA6-SB-090711	DX132	WQ	9/7/2011	FIELD
SA6	SL-204-SA6-SB-4.0-5.0	DX132	SO	9/6/2011	FIELD
SA6	SL-205-SA6-SB-4.0-5.0	DX132	SO	9/7/2011	FIELD
SA6	SL-258-SA6-SB-0.0-0.83	DX132	SO	9/1/2011	FIELD
SA6	SL-261-SA6-SB-1.5-2.5	DX132	SO	9/6/2011	FIELD
SA6	SL-261-SA6-SB-9.0-10.0	DX132	SO	9/6/2011	FIELD
SA6	SL-262-SA6-SB-4.0-5.0	DX132	SO	9/1/2011	FIELD
SA6	SL-263-SA6-SB-4.0-5.0	DX132	SO	9/6/2011	FIELD
SA6	SL-263-SA6-SB-9.0-10.0	DX132	SO	9/6/2011	FIELD
SA6	SL-264-SA6-SB-0.4-1.4	DX132	SO	9/1/2011	FIELD
SA6	SL-266-SA6-SB-4.0-5.0	DX132	SO	9/1/2011	FIELD
SA6	SL-311-SA6-SB-2.0-3.0	DX132	SO	9/7/2011	FIELD

Table C-2. Samples by SDG for SA6

Task Code	System Sample Code	Lab	Matrix Code	Sample Date	Sample Source
SA6	DUP15-SA6-QC-090911	DX133	SO	9/9/2011	FIELD
SA6	SL-001-SA6-SB-0.0-1.0	DX133	SO	9/9/2011	FIELD
SA6	SL-050-SA6-SB-1.0-2.0	DX133	SO	9/12/2011	FIELD
SA6	SL-051-SA6-SB-3.5-4.5	DX133	SO	9/12/2011	FIELD
SA6	SL-055-SA6-SB-2.0-3.0	DX133	SO	9/12/2011	FIELD
SA6	SL-210-SA6-SB-4.0-5.0	DX133	SO	9/9/2011	FIELD
SA6	SL-210-SA6-SB-9.0-10.0	DX133	SO	9/9/2011	FIELD
SA6	SL-217-SA6-SB-4.0-5.0	DX133	SO	9/9/2011	FIELD
SA6	SL-217-SA6-SB-7.5-8.5	DX133	SO	9/9/2011	FIELD
SA6	SL-235-SA6-SB-4.0-5.0	DX133	SO	9/12/2011	FIELD
SA6	SL-269-SA6-SB-1.5-2.5	DX133	SO	9/12/2011	FIELD
SA6	SL-007-SA6-SB-1.0-2.0	DX146	SO	10/4/2011	FIELD
SA6	SL-037-SA6-SB-4.0-5.0	DX146	SO	10/4/2011	FIELD
SA6	SL-037-SA6-SB-9.0-10.0	DX146	SO	10/4/2011	FIELD
SA6	SL-064-SA6-SB-4.0-5.0	DX146	SO	10/3/2011	FIELD
SA6	SL-064-SA6-SB-9.0-10.0	DX146	SO	10/3/2011	FIELD
SA6	SL-191-SA6-SB-0.0-1.0	DX146	SO	10/4/2011	FIELD
SA6	SL-206-SA6-SB-4.0-5.0	DX146	SO	10/4/2011	FIELD
SA6	SL-225-SA6-SB-3.0-4.0	DX146	SO	10/4/2011	FIELD
SA6	SL-229-SA6-SB-2.0-3.0	DX147	SO	10/6/2011	FIELD
SA6	SL-229-SA6-SS-0.0-0.5	DX147	SO	10/6/2011	FIELD
SA6	SL-230-SA6-SB-4.0-5.0	DX147	SO	10/6/2011	FIELD
SA6	SL-230-SA6-SS-0.0-0.5	DX147	SO	10/6/2011	FIELD
SA6	SL-232-SA6-SB-2.5-3.5	DX147	SO	10/6/2011	FIELD
SA6	SL-232-SA6-SS-0.0-0.5	DX147	SO	10/6/2011	FIELD
SA6	SL-234-SA6-SS-0.0-0.5	DX147	SO	10/6/2011	FIELD
SA6	SL-254-SA6-SB-2.5-3.5	DX147	SO	10/6/2011	FIELD
SA6	DUP16-SA6-QC-100511	DX148	SO	10/5/2011	FIELD
SA6	EB-SA6-SB-100511	DX148	WQ	10/5/2011	FIELD
SA6	EB-SA6-SB-100611	DX148	WQ	10/6/2011	FIELD
SA6	SL-265-SA6-SB-4.0-5.0	DX148	SO	10/11/2011	FIELD
SA6	SL-268-SA6-SB-4.0-5.0	DX148	SO	10/6/2011	FIELD
SA6	SL-301-SA6-SB-4.0-5.0	DX148	SO	10/5/2011	FIELD
SA6	SL-319-SA6-SB-4.0-5.0	DX148	SO	10/5/2011	FIELD
SA6	DUP17-SA6-QC-120111	DX156	SO	12/1/2011	FIELD
SA6	EB-SA6-SB-120111	DX156	AQ	12/1/2011	FIELD
SA6	SL-282-SA6-SB-2.5-3.5	DX156	SO	11/30/2011	FIELD
SA6	SL-282-SA6-SS-0.0-0.5	DX156	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-14.0-15.0	DX156	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-18.0-19.0	DX156	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-4.0-5.0	DX156	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SB-9.0-10.0	DX156	SO	11/30/2011	FIELD
SA6	SL-283-SA6-SS-0.0-0.5	DX156	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-14.0-15.0	DX156	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-15.5-16.5	DX156	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-4.0-5.0	DX156	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SB-9.0-10.0	DX156	SO	11/30/2011	FIELD
SA6	SL-284-SA6-SS-0.0-0.5	DX156	SO	11/30/2011	FIELD
SA6	SL-285-SA6-SB-4.0-5.0	DX156	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SB-6.0-7.0	DX156	SO	11/29/2011	FIELD
SA6	SL-285-SA6-SS-0.0-0.5	DX156	SO	11/29/2011	FIELD

SAMPLE DELIVERY GROUP

DE253

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-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3050B	6010B	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3050B	6020	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3060A	7199	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3550B	8082	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3550B	8270C	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	3550B	8270C SIM	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	METHOD	300.0	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	METHOD	314.0	III
23-Sep-2011	SL-028-SA7-SB-8.0-9.0	6418471	N	METHOD	7471A	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3050B	6010B	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3050B	6020	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3060A	7199	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8081A	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8082	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8151A	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8270C	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	3550B	8270C SIM	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	METHOD	300.0	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	METHOD	314.0	III
26-Sep-2011	SL-001-SA3-SS-0.0-0.5	6419488	N	METHOD	7471A	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3050B	6010B	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3050B	6020	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3060A	7199	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8081A	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8082	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	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
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8270C	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	3550B	8270C SIM	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	METHOD	300.0	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	METHOD	314.0	III
26-Sep-2011	SL-002-SA3-SS-0.0-0.5	6419489	N	METHOD	7471A	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3050B	6010B	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3050B	6020	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3060A	7199	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8081A	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8082	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8151A	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8270C	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	3550B	8270C SIM	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	METHOD	300.0	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	METHOD	314.0	III
26-Sep-2011	SL-027-SA5DS-SS-0.0-0.5	6419498	N	METHOD	7471A	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3050B	6010B	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3050B	6020	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3060A	7199	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8081A	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8082	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8151A	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8270C	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	3550B	8270C SIM	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	METHOD	300.0	III
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	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
26-Sep-2011	SL-026-SA5DS-SS-0.0-0.5	6419497	N	METHOD	7471A	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3050B	6010B	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3050B	6020	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3060A	7199	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8081A	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8082	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8151A	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8270C	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	3550B	8270C SIM	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	METHOD	300.0	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	METHOD	314.0	III
26-Sep-2011	SL-028-SA5DS-SS-0.0-0.5	6419499	N	METHOD	7471A	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3050B	6010B	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3050B	6020	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3060A	7199	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8081A	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8082	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8151A	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8270C	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	3550B	8270C SIM	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	METHOD	300.0	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	METHOD	314.0	III
26-Sep-2011	SL-029-SA5DS-SS-0.0-0.5	6419500	N	METHOD	7471A	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3050B	6010B	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3050B	6020	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	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
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8081A	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8082	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8151A	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8270C	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	3550B	8270C SIM	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	METHOD	300.0	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	METHOD	314.0	III
26-Sep-2011	SL-030-SA5DS-SS-0.0-0.5	6419501	N	METHOD	7471A	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3050B	6010B	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3050B	6020	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3060A	7199	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8081A	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8082	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8151A	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8270C	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	3550B	8270C SIM	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	METHOD	300.0	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	METHOD	314.0	III
26-Sep-2011	SL-031-SA5DS-SS-0.0-0.5	6419502	N	METHOD	7471A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3050B	6010B	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3050B	6020	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3060A	7199	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8081A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8082	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8151A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	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
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	3550B	8270C SIM	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	METHOD	300.0	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	METHOD	314.0	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5	6419503	N	METHOD	7471A	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5DU	P419503D271501B	DUP	METHOD	300.0	III
26-Sep-2011	SL-032-SA5DS-SS-0.0-0.5MS	P419503R271514B	MS	METHOD	300.0	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3050B	6010B	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3050B	6020	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3060A	7199	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8081A	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8082	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8151A	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8270C	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	3550B	8270C SIM	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	METHOD	300.0	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	METHOD	314.0	III
26-Sep-2011	SL-002-SA5DS-SS-0.0-0.5	6419490	N	METHOD	7471A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3050B	6010B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3050B	6020	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3060A	7199	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8081A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8082	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8151A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8270C	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	3550B	8270C SIM	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	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
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	METHOD	314.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5	6419491	N	METHOD	7471A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3050B	6010B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3050B	6020	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3060A	7199	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8081A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8082	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8151A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8270C	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	3550B	8270C SIM	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	METHOD	300.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	METHOD	314.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 M	6419492	MS	METHOD	7471A	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	3050B	6010B	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	3050B	6020	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	3060A	7199	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	METHOD	300.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	METHOD	314.0	III
26-Sep-2011	SL-001-SA5DS-SS-0.0-0.5 D	6419494	DUP	METHOD	7471A	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3050B	6010B	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3050B	6020	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3060A	7199	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8081A	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8082	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8151A	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	3550B	8270C SIM	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	METHOD	300.0	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	METHOD	314.0	III
26-Sep-2011	DUP01-SA5DS-QC-092611	6419504	FD	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: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-001-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.79	MDL	0.99	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-027-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.79	U	0.79	MDL	0.99	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
FLUORIDE	1.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 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
TIN	2.90	J	0.316	MDL	9.88	PQL	mg/Kg	U	B

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	87.8	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	3.17	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.95	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: PrepDE253_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-001-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.00	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-002-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 8:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	74.5	J	5.78	MDL	97.1	PQL	mg/Kg	J	Z
TIN	2.78	J	0.311	MDL	9.71	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.447	MDL	4.85	PQL	mg/Kg	U	B

Sample ID: SL-002-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 2:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.06	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-026-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:35:00 *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	0.315	MDL	9.85	PQL	mg/Kg	U	B
Zirconium	2.89	J	0.453	MDL	4.92	PQL	mg/Kg	U	B

Sample ID: SL-027-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
TIN	2.63	J	0.314	MDL	9.83	PQL	mg/Kg	U	B

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.05	J	0.312	MDL	9.76	PQL	mg/Kg	U	B

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.42	J	0.449	MDL	4.88	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-028-SA7-SB-8.0-9.0 ***Collected:*** 9/23/2011 2:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.53	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	0.771	J	0.488	MDL	5.30	PQL	mg/Kg	U	B

Sample ID: SL-029-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:10:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.12	J	0.328	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-029-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:10:00 ***Analysis Type:*** REA4 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.39	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
TIN	3.08	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-030-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
Zirconium	3.54	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:50:00 ***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	0.331	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-031-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.13	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
TIN	3.07	J	0.327	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 12:10:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.88	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 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
ANTIMONY	0.430		0.0745	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	8.99		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
CADMIUM	0.351		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	63.1		0.121	MDL	0.403	PQL	mg/Kg	J	A
COPPER	8.84		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	48.0		0.0103	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	19.4		0.101	MDL	0.403	PQL	mg/Kg	J	Q, A
SILVER	0.0541	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.197		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	118		0.0222	MDL	0.101	PQL	mg/Kg	J	A
ZINC	82.3		0.564	MDL	3.02	PQL	mg/Kg	J	A

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 3:10:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.275	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 3:10:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.906		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP01-SA5DS-QC-092611 ***Collected:*** 9/26/2011 3:10:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.1		0.107	MDL	0.403	PQL	mg/Kg	J	A

Sample ID: SL-001-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 7:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0725	MDL	0.196	PQL	mg/Kg	J	Z, Q
ARSENIC	3.15		0.0784	MDL	0.392	PQL	mg/Kg	J	Q
CADMIUM	0.170		0.0431	MDL	0.0980	PQL	mg/Kg	J	Q
CHROMIUM	12.0		0.118	MDL	0.392	PQL	mg/Kg	J	A
COPPER	6.59		0.0784	MDL	0.392	PQL	mg/Kg	J	Q
LEAD	15.0		0.0100	MDL	0.196	PQL	mg/Kg	J	A
NICKEL	8.35		0.0980	MDL	0.392	PQL	mg/Kg	J	Q, A
SILVER	0.0759	J	0.0139	MDL	0.0980	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0294	MDL	0.0980	PQL	mg/Kg	J	Q
VANADIUM	24.5		0.0216	MDL	0.0980	PQL	mg/Kg	J	A
ZINC	86.9		0.549	MDL	2.94	PQL	mg/Kg	J	A

Sample ID: SL-001-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 7:50:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z, Q

Sample ID: SL-001-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 7:50:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.473		0.0490	MDL	0.0980	PQL	mg/Kg	J	Q

Sample ID: SL-001-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 7:50:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.7		0.104	MDL	0.392	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-001-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 3:05:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.436		0.0730	MDL	0.197	PQL	mg/Kg	J	Q
ARSENIC	7.36		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
CADMIUM	0.294		0.0434	MDL	0.0987	PQL	mg/Kg	J	Q
CHROMIUM	54.1		0.118	MDL	0.395	PQL	mg/Kg	J	A
COPPER	7.37		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	40.1		0.0101	MDL	0.197	PQL	mg/Kg	J	A
NICKEL	14.0		0.0987	MDL	0.395	PQL	mg/Kg	J	Q, A
SILVER	0.0372	J	0.0140	MDL	0.0987	PQL	mg/Kg	J	Z, Q
THALLIUM	0.172		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q
VANADIUM	98.1		0.0217	MDL	0.0987	PQL	mg/Kg	J	A
ZINC	72.7		0.553	MDL	2.96	PQL	mg/Kg	J	A

Sample ID: **SL-001-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 3:05:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0572	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-001-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 3:05:00** ***Analysis Type:*** **REA8** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.757		0.0494	MDL	0.0987	PQL	mg/Kg	J	Q

Sample ID: **SL-001-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 3:05:00** ***Analysis Type:*** **REA9** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.4		0.105	MDL	0.395	PQL	mg/Kg	J	A

Sample ID: **SL-002-SA3-SS-0.0-0.5** ***Collected:*** **9/26/2011 8:15:00** ***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	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	2.97		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
CADMIUM	0.217		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.119	MDL	0.396	PQL	mg/Kg	J	A
COPPER	7.24		0.0792	MDL	0.396	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-002-SA3-SS-0.0-0.5** ***Collected:*** **9/26/2011 8:15:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	15.5		0.0101	MDL	0.198	PQL	mg/Kg	J	A
NICKEL	9.40		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, A
SILVER	0.0809	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.237		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	31.0		0.0218	MDL	0.0990	PQL	mg/Kg	J	A
ZINC	106		0.554	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: **SL-002-SA3-SS-0.0-0.5** ***Collected:*** **9/26/2011 8:15:00** ***Analysis Type:*** **REA7** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-002-SA3-SS-0.0-0.5** ***Collected:*** **9/26/2011 8:15:00** ***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		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: **SL-002-SA3-SS-0.0-0.5** ***Collected:*** **9/26/2011 8:15:00** ***Analysis Type:*** **REA9** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.7		0.105	MDL	0.396	PQL	mg/Kg	J	A

Sample ID: **SL-002-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 2:35:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.309		0.0748	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	6.53		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
CADMIUM	0.345		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	48.8		0.121	MDL	0.405	PQL	mg/Kg	J	A
COPPER	11.0		0.0809	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	24.2		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	15.8		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0472	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.219		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	84.4		0.0222	MDL	0.101	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	75.9		0.566	MDL	3.03	PQL	mg/Kg	J	A

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.294	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.747		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-026-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0736	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	3.27		0.0795	MDL	0.398	PQL	mg/Kg	J	Q
CADMIUM	0.152		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q
CHROMIUM	24.8		0.119	MDL	0.398	PQL	mg/Kg	J	A
COPPER	11.9		0.0795	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	12.1		0.0101	MDL	0.199	PQL	mg/Kg	J	A
NICKEL	20.0		0.0994	MDL	0.398	PQL	mg/Kg	J	Q, A
SILVER	0.0205	J	0.0141	MDL	0.0994	PQL	mg/Kg	J	Z, Q
THALLIUM	0.186		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q
VANADIUM	63.9		0.0219	MDL	0.0994	PQL	mg/Kg	J	A
ZINC	58.8		0.557	MDL	2.98	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-026-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:35:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z, Q

Sample ID: SL-026-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:35:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.404		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-026-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:35:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.105	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
ANTIMONY	0.194	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	5.79		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
CADMIUM	0.354		0.0437	MDL	0.0992	PQL	mg/Kg	J	Q
CHROMIUM	44.5		0.119	MDL	0.397	PQL	mg/Kg	J	A
COPPER	14.1		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	10.1		0.0101	MDL	0.198	PQL	mg/Kg	J	A
NICKEL	20.6		0.0992	MDL	0.397	PQL	mg/Kg	J	Q, A
SILVER	0.161		0.0141	MDL	0.0992	PQL	mg/Kg	J	Q
THALLIUM	0.367		0.0298	MDL	0.0992	PQL	mg/Kg	J	Q
VANADIUM	95.0		0.0218	MDL	0.0992	PQL	mg/Kg	J	A
ZINC	104		0.556	MDL	2.98	PQL	mg/Kg	J	A

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 9:25:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.282	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
MOLYBDENUM	0.413		0.0496	MDL	0.0992	PQL	mg/Kg	J	Q

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
BARIUM	128		0.105	MDL	0.397	PQL	mg/Kg	J	A

Sample ID: SL-028-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0722	MDL	0.195	PQL	mg/Kg	J	Z, Q
ARSENIC	2.80		0.0781	MDL	0.391	PQL	mg/Kg	J	Q
CADMIUM	0.362		0.0430	MDL	0.0976	PQL	mg/Kg	J	Q
CHROMIUM	22.5		0.117	MDL	0.391	PQL	mg/Kg	J	A
COPPER	16.5		0.0781	MDL	0.391	PQL	mg/Kg	J	Q
LEAD	28.1		0.010	MDL	0.195	PQL	mg/Kg	J	A
NICKEL	17.3		0.0976	MDL	0.391	PQL	mg/Kg	J	Q, A
SILVER	0.351		0.0139	MDL	0.0976	PQL	mg/Kg	J	Q
THALLIUM	0.244		0.0293	MDL	0.0976	PQL	mg/Kg	J	Q
VANADIUM	62.6		0.0215	MDL	0.0976	PQL	mg/Kg	J	A
ZINC	109		0.547	MDL	2.93	PQL	mg/Kg	J	A

Sample ID: SL-028-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:50:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0566	MDL	0.391	PQL	mg/Kg	J	Z, Q

Sample ID: SL-028-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:50:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.384		0.0488	MDL	0.0976	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.103	MDL	0.391	PQL	mg/Kg	J	A

Sample ID: SL-028-SA7-SB-8.0-9.0 *Collected:* 9/23/2011 2:14:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0969	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA7-SB-8.0-9.0 *Collected:* 9/23/2011 2:14:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0762	U	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	4.27		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
CADMIUM	0.0722	J	0.0453	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	20.1		0.124	MDL	0.412	PQL	mg/Kg	J	Q
COPPER	8.13		0.0824	MDL	0.412	PQL	mg/Kg	J	Q
LEAD	4.25		0.0105	MDL	0.206	PQL	mg/Kg	J	Q
NICKEL	11.7		0.103	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0176	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	38.8		0.0227	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
ANTIMONY	0.343		0.0744	MDL	0.201	PQL	mg/Kg	J	Q
ARSENIC	8.36		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
CADMIUM	0.252		0.0442	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	58.8		0.121	MDL	0.402	PQL	mg/Kg	J	A
COPPER	22.4		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
LEAD	15.7		0.0103	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	29.2		0.101	MDL	0.402	PQL	mg/Kg	J	Q, A
SILVER	0.0472	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.539		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	118		0.0221	MDL	0.101	PQL	mg/Kg	J	A
ZINC	116		0.563	MDL	3.02	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.412		0.0583	MDL	0.402	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.514		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	143		0.107	MDL	0.402	PQL	mg/Kg	J	A

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
ARSENIC	9.83		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
CADMIUM	0.283		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	68.5		0.121	MDL	0.405	PQL	mg/Kg	J	A
COPPER	25.6		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	17.8		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	34.2		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0488	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.616		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	136		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	138		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
ANTIMONY	0.182	J	0.0749	MDL	0.202	PQL	mg/Kg	J	Z, Q

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:25:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.483		0.0587	MDL	0.405	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:25:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.651		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:25:00 *Analysis Type:* REA9 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	180		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.341		0.0751	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	8.83		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
CADMIUM	0.268		0.0447	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	55.5		0.122	MDL	0.406	PQL	mg/Kg	J	A
COPPER	24.8		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	32.3		0.0104	MDL	0.203	PQL	mg/Kg	J	A
NICKEL	28.6		0.101	MDL	0.406	PQL	mg/Kg	J	Q, A
SILVER	0.0554	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.526		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	111		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	138		0.568	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.510		0.0589	MDL	0.406	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-031-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:50:00 ***Analysis Type:*** REA9 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	151		0.108	MDL	0.406	PQL	mg/Kg	J	A

Sample ID: SL-032-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 12:10:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.317		0.0749	MDL	0.202	PQL	mg/Kg	J	Q
ARSENIC	8.40		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
CADMIUM	0.282		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	47.7		0.121	MDL	0.405	PQL	mg/Kg	J	A
COPPER	20.1		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	15.3		0.0103	MDL	0.202	PQL	mg/Kg	J	A
NICKEL	26.2		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0435	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.474		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	97.5		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	101		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-032-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 12:10:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.515		0.0587	MDL	0.405	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
MOLYBDENUM	0.794		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-032-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
BARIUM	146		0.107	MDL	0.405	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-026-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA7-SB-8.0-9.0 *Collected:* 9/23/2011 2:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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	0.37	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 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
MERCURY	0.0115	J	0.0066	MDL	0.0943	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0133	J	0.0070	MDL	0.0997	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-002-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 2:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0069	MDL	0.0979	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	J	0.0068	MDL	0.0964	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
MERCURY	0.0145	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 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
Chlordane	5.3		0.81	MDL	3.4	PQL	ug/Kg	J	FD
DELTA-BHC	0.48		0.036	MDL	0.17	PQL	ug/Kg	J	FD

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.70		0.066	MDL	0.34	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-001-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 7:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.91		0.066	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	2.4	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-001-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 3:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	R	Q
Chlordane	2.0	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, FD
DELTA-BHC	0.039	U	0.039	MDL	0.17	PQL	ug/Kg	UJ	FD
ENDRIN ALDEHYDE	0.43		0.066	MDL	0.34	PQL	ug/Kg	J	Q

Sample ID: SL-002-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.7	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.14	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z
DELTA-BHC	0.052	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.040	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
4,4'-DDE	1.1	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
4,4'-DDT	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	10	J	4.0	MDL	17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.3	J	0.83	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
ALPHA-BHC	0.090	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
Chlordane	3.4	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
ENDOSULFAN I	0.089	J	0.045	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
Chlordane	2.6	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.057	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
METHOXYCHLOR	0.81	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	7.4		1.0	MDL	3.3	PQL	ug/Kg	J	FD

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.53	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.3	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.4	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-002-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 10:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.98	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
AROCLOR 1260	1.3	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 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	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.6	J	0.80	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-001-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	R	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-001-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.0	U	2.0	MDL	2.0	PQL	ug/Kg	R	Q
DALAPON	4.4	U	4.4	MDL	9.1	PQL	ug/Kg	R	Q
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DICHLOROPROP	0.81	U	0.81	MDL	1.7	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L
MCPA	77	U	77	MDL	250	PQL	ug/Kg	R	Q
MCPP	76	U	76	MDL	250	PQL	ug/Kg	R	Q

Sample ID: SL-002-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.5	J	1.2	MDL	3.6	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-026-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.86	J	0.81	MDL	2.4	PQL	ug/Kg	J	Z, L

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-028-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L
MCPA	120	J	76	MDL	250	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-029-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.7	J	0.64	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-030-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-031-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 11:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-032-SA5DS-SS-0.0-0.5 *Collected:* 9/26/2011 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
2,4,5-T	0.15	J	0.084	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP01-SA5DS-QC-092611 *Collected:* 9/26/2011 3:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	51	J	17	MDL	330	PQL	ug/Kg	J	Z
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z, FD

Sample ID: SL-001-SA3-SS-0.0-0.5 *Collected:* 9/26/2011 7:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-001-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 3:05:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3300	PQL	ug/Kg	R	Q
FLUORANTHENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD
PYRENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 8:15:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	83	J	17	MDL	330	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

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

Sample ID: SL-026-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:35:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	8300	U	8300	MDL	25000	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	1400	J	830	MDL	8300	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1400	J	830	MDL	8300	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1100	J	830	MDL	8300	PQL	ug/Kg	J	Z
CHRYSENE	1500	J	830	MDL	8300	PQL	ug/Kg	J	Z
FLUORANTHENE	1100	J	830	MDL	8300	PQL	ug/Kg	J	Z
PYRENE	1300	J	830	MDL	8300	PQL	ug/Kg	J	Z

Sample ID: SL-027-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 9:25:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	840	U	840	MDL	2500	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-028-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 10:50:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA7-SB-8.0-9.0 ***Collected:*** 9/23/2011 2:14:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

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

Sample ID: SL-029-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:10:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-030-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-031-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 11:50:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	340	PQL	ug/Kg	J	Z
PHENOL	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-032-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 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
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP01-SA5DS-QC-092611 ***Collected:*** 9/26/2011 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(B)FLUORANTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
CHRYSENE	0.75	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.0	U	6.0	MDL	18	PQL	ug/Kg	UJ	FD

Sample ID: SL-001-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 7:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	5.9	J	5.9	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.97	J	0.33	MDL	1.6	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.66	MDL	1.6	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.66	MDL	1.6	PQL	ug/Kg	J	Z

Sample ID: SL-001-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 3:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.2		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.0	MDL	18	PQL	ug/Kg	J	Z, Q
CHRYSENE	0.49	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.0	MDL	18	PQL	ug/Kg	J	Z, FD

Sample ID: SL-002-SA3-SS-0.0-0.5 ***Collected:*** 9/26/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.66	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.36	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.80	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.2	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-002-SA5DS-SS-0.0-0.5 ***Collected:*** 9/26/2011 2:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.70	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-002-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 2:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.96	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.1	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-026-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 10:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.48	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.0	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.99	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-027-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 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
BENZO(A)ANTHRACENE	3.9	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	33	J	30	MDL	90	PQL	ug/Kg	J	Z
PHENANTHRENE	4.5	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	7.4	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: **SL-028-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 10:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.72	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.86	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.82	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory:** LL

EDD Filename: DE253_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: **SL-029-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 11:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	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
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	6.2	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.76	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-030-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 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	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.94	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.99	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-032-SA5DS-SS-0.0-0.5** ***Collected:*** **9/26/2011 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-METHYLNAPHTHALENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.81	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.57	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.6	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE253

Method Blank Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26908EB220703	10/3/2011 7:03:00 AM	CALCIUM IRON PHOSPHORUS TIN	3.28 mg/Kg 3.68 mg/Kg 1.15 mg/Kg 1.39 mg/Kg	SL-028-SA7-SB-8.0-9.0
P27108AB220719	10/7/2011 7:19:00 AM	BORON MANGANESE PHOSPHORUS STRONTIUM TIN	0.527 mg/Kg 0.0430 mg/Kg 1.09 mg/Kg 0.0680 mg/Kg 1.38 mg/Kg	DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5
P27108AB221351	10/10/2011 1:51:00 PM	ALUMINUM	8.80 mg/Kg	DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5
P27108AB221731	10/7/2011 5:31:00 PM	CALCIUM IRON MAGNESIUM	7.97 mg/Kg 12.9 mg/Kg 1.96 mg/Kg	DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5
P27708BB220741	10/5/2011 7:41:00 AM	TITANIUM	0.0840 mg/Kg	SL-028-SA7-SB-8.0-9.0

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-SA5DS-QC-092611(REA)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-001-SA3-SS-0.0-0.5(REA)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-001-SA5DS-SS-0.0-0.5(REA)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-002-SA3-SS-0.0-0.5(REA)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-002-SA5DS-SS-0.0-0.5(REA)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-026-SA5DS-SS-0.0-0.5(REA)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-027-SA5DS-SS-0.0-0.5(REA)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-028-SA5DS-SS-0.0-0.5(REA)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-028-SA7-SB-8.0-9.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-029-SA5DS-SS-0.0-0.5(REA)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-030-SA5DS-SS-0.0-0.5(REA)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-031-SA5DS-SS-0.0-0.5(REA)	TIN	3.21 mg/Kg	3.21U mg/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **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-032-SA5DS-SS-0.0-0.5(REA)	TIN	3.07 mg/Kg	3.07U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P26926AB220448A	10/4/2011 4:48:00 AM	LEAD	0.0329 mg/Kg	SL-028-SA7-SB-8.0-9.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **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-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	2,4-D	229	-	17.00-180.00	114 (35.00)	2,4-D	J (all detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	2,4,5-TP (Silvex) 2,4-DB DALAPON DICAMBA DICHLOROPROP DINOSEB MCPA MCPP	0 0 - 0 0 0 0 0	0 0 0 0 0 6 0 0	24.00-141.00 10.00-201.00 10.00-125.00 10.00-190.00 33.00-178.00 10.00-46.00 10.00-213.00 10.00-184.00	- - 200 (50.00) - - 200 (35.00) - -	2,4,5-TP (Silvex) 2,4-DB DALAPON DICAMBA DICHLOROPROP DINOSEB MCPA MCPP	J(all detects) R(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-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	4,4'-DDD ENDRIN ALDEHYDE	0 0	- -	16.00-163.00 10.00-148.00	200 (50.00) -	4,4'-DDD ENDRIN ALDEHYDE	J(all detects) R(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-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	ARSENIC CADMIUM CHROMIUM COPPER NICKEL SILVER THALLIUM VANADIUM ZINC	187 143 181 131 147 139 134 213 -	150 143 164 134 143 140 141 202 131	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM CHROMIUM COPPER NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Cr, V, Zn No Qual, >4x
SL-001-SA5DS-SS-0.0-0.5 MS (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	LEAD	7	-	75.00-125.00	-	LEAD	No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_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-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	ANTIMONY	54	50	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	SELENIUM	137	135	75.00-125.00	-	SELENIUM	J(all detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	MOLYBDENUM	145	147	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	BARIUM	133	131	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_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-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	948 335 330 144 529	956 259 763 192 548	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	No Qual, >4x

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MS (SL-001-SA5DS-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	197	-	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	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-001-SA5DS-SS-0.0-0.5 MS (SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5)	FLUORIDE	50	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-032-SA5DS-SS-0.0-0.5MS (DUP01-SA5DS-QC-092611 SL-032-SA5DS-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	2,4-DINITROPHENOL BENZOIC ACID PENTACHLOROPHENOL	- - -	- - -	20.00-143.00 10.00-173.00 28.00-127.00	36 (30.00) 34 (30.00) 39 (30.00)	2,4-DINITROPHENOL BENZOIC ACID PENTACHLOROPHENOL	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_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-001-SA5DS-SS-0.0-0.5 MS SL-001-SA5DS-SS-0.0-0.5 MSD (SL-001-SA5DS-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-032-SA5DS-SS-0.0-0.5DUP (DUP01-SA5DS-QC-092611 SL-032-SA5DS-SS-0.0-0.5)	FLUORIDE	42	20.00	No Qual, OK by Difference
SL-001-SA5DS-SS-0.0-0.5 DUP (SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5)	FLUORIDE	27	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA5DS-SS-0.0-0.5 DUP (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	CADMIUM	24	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA5DS-SS-0.0-0.5 DUP (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **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
P12773AQ242124A (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	DINOSEB	9	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26926AQ220450A (SL-028-SA7-SB-8.0-9.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual, SRM Within QC Limits

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P26908EQ220707 (SL-028-SA7-SB-8.0-9.0)	ALUMINUM	138	-	80.00-120.00	-	ALUMINUM	No Qual, SRM Within QC Limits
P27108AQ220723 P27108AQ221735 (DUP01-SA5DS-QC-092611 SL-001-SA3-SS-0.0-0.5 SL-001-SA5DS-SS-0.0-0.5 SL-002-SA3-SS-0.0-0.5 SL-002-SA5DS-SS-0.0-0.5 SL-026-SA5DS-SS-0.0-0.5 SL-027-SA5DS-SS-0.0-0.5 SL-028-SA5DS-SS-0.0-0.5 SL-029-SA5DS-SS-0.0-0.5 SL-030-SA5DS-SS-0.0-0.5 SL-031-SA5DS-SS-0.0-0.5 SL-032-SA5DS-SS-0.0-0.5)	ALUMINUM IRON MAGNESIUM	143 140 122	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM Within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_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
P7LCLCSQ262217 (DUP01 -SA5DS -QC-092611 SL -001-SA3-SS-0.0-0.5 SL -001-SA5DS -SS-0.0-0.5 SL -002-SA3-SS-0.0-0.5 SL -002-SA5DS -SS-0.0-0.5 SL -026-SA5DS -SS-0.0-0.5 SL -027-SA5DS -SS-0.0-0.5 SL -028-SA5DS -SS-0.0-0.5 SL -028-SA7-SB-8.0-9.0 SL -029-SA5DS -SS-0.0-0.5 SL -030-SA5DS -SS-0.0-0.5 SL -031-SA5DS -SS-0.0-0.5 SL -032-SA5DS -SS-0.0-0.5)	4,6-DINITRO-2-METHYLPHENOL	43	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8081A**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-001-SA3-SS-0.0 -0.5	DECACHLOROBIPHENYL	123	20.00-120.00	All Target Analytes	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	DECACHLOROBIPHENYL	145	20.00-120.00	All Target Analytes	No Qual, Diluted Out

Field Duplicate RPD Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%) SL-001-SA5DS-SS-0.0-0.5	Concentration (%) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
MOISTURE	0.67	0.73	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
FLUORIDE	4.6	2.9	45	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
ALUMINUM	12200	12200	0	50.00	No Qualifiers Applied
BORON	7.49	6.86	9	50.00	
CALCIUM	5160	5090	1	50.00	
IRON	22900	23700	3	50.00	
LITHIUM	16.2	18.2	12	50.00	
MAGNESIUM	5630	5790	3	50.00	
MANGANESE	305	308	1	50.00	
PHOSPHORUS	878	879	0	50.00	
POTASSIUM	1760	1630	8	50.00	
SODIUM	124	109	13	50.00	
STRONTIUM	22.0	22.4	2	50.00	
TIN	3.00	2.90	3	50.00	
TITANIUM	1240	1160	7	50.00	
Zirconium	12.5	8.12	42	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
ANTIMONY	0.436	0.430	1	50.00	No Qualifiers Applied
ARSENIC	7.36	8.99	20	50.00	
BARIUM	69.4	98.1	34	50.00	
BERYLLIUM	0.401	0.397	1	50.00	
CADMIUM	0.294	0.351	18	50.00	
CHROMIUM	54.1	63.1	15	50.00	
COBALT	7.42	11.7	45	50.00	
COPPER	7.37	8.84	18	50.00	
LEAD	40.1	48.0	18	50.00	
MOLYBDENUM	0.757	0.906	18	50.00	
NICKEL	14.0	19.4	32	50.00	
SELENIUM	0.257	0.275	7	50.00	
SILVER	0.0372	0.0541	37	50.00	
THALLIUM	0.172	0.197	14	50.00	
VANADIUM	98.1	118	18	50.00	
ZINC	72.7	82.3	12	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (mg/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0133	0.0115	15	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
4,4'-DDE	0.52	0.70	30	50.00	No Qualifiers Applied
4,4'-DDT	1.2	1.5	22	50.00	
ENDRIN ALDEHYDE	0.43	0.51	17	50.00	
Chlordane	2.0	5.3	90	50.00	J(all detects)
DELTA-BHC	0.17 U	0.48	200	50.00	UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	8.0	4.9	48	50.00	No Qualifiers Applied
AROCLOR 1260	7.7	5.9	26	50.00	
Aroclor 5460	2.4	7.4	102	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
CHRYSENE	0.49	0.75	42	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	3.2	1.1	98	50.00	J(all detects)
Di-n-octylphthalate	6.9	18 U	200	50.00	UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg) SL-001-SA5DS-SS-0.0-0.5	Concentration (ug/Kg) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
PHENOL	170 U	18	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit) SL-001-SA5DS-SS-0.0-0.5	Concentration (pH unit) DUP01-SA5DS-QC-092611	Sample RPD	eQAPP RPD	Flag
PH	6.04	6.51	7	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	TIN	J	2.90	9.88	PQL	mg/Kg	J (all detects)
SL-001-SA3-SS-0.0-0.5	SODIUM	J	87.8	98.0	PQL	mg/Kg	J (all detects)
	TIN	J	3.17	9.80	PQL	mg/Kg	
	Zirconium	J	2.95	4.90	PQL	mg/Kg	
SL-001-SA5DS-SS-0.0-0.5	TIN	J	3.00	10.1	PQL	mg/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	SODIUM	J	74.5	97.1	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	9.71	PQL	mg/Kg	
	Zirconium	J	2.40	4.85	PQL	mg/Kg	
SL-002-SA5DS-SS-0.0-0.5	TIN	J	3.06	10.0	PQL	mg/Kg	J (all detects)
SL-026-SA5DS-SS-0.0-0.5	TIN	J	2.20	9.85	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.89	4.92	PQL	mg/Kg	
SL-027-SA5DS-SS-0.0-0.5	TIN	J	2.63	9.83	PQL	mg/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	TIN	J	3.05	9.76	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.42	4.88	PQL	mg/Kg	
SL-028-SA7-SB-8.0-9.0	TIN	J	2.53	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.771	5.30	PQL	mg/Kg	
SL-029-SA5DS-SS-0.0-0.5	TIN	J	3.12	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.39	5.12	PQL	mg/Kg	
SL-030-SA5DS-SS-0.0-0.5	TIN	J	3.08	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.54	5.06	PQL	mg/Kg	
SL-031-SA5DS-SS-0.0-0.5	TIN	J	3.21	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.13	5.18	PQL	mg/Kg	
SL-032-SA5DS-SS-0.0-0.5	TIN	J	3.07	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.88	5.11	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	SELENIUM	J	0.275	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0541	0.101	PQL	mg/Kg	
SL-001-SA3-SS-0.0-0.5	ANTIMONY	J	0.122	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.145	0.392	PQL	mg/Kg	
	SILVER	J	0.0759	0.0980	PQL	mg/Kg	
SL-001-SA5DS-SS-0.0-0.5	SELENIUM	J	0.257	0.395	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0372	0.0987	PQL	mg/Kg	
SL-002-SA3-SS-0.0-0.5	ANTIMONY	J	0.141	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.396	PQL	mg/Kg	
	SILVER	J	0.0809	0.0990	PQL	mg/Kg	
SL-002-SA5DS-SS-0.0-0.5	SELENIUM	J	0.294	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0472	0.101	PQL	mg/Kg	
SL-026-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.102	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.154	0.398	PQL	mg/Kg	
	SILVER	J	0.0205	0.0994	PQL	mg/Kg	
SL-027-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.194	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.282	0.397	PQL	mg/Kg	
SL-028-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.145	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.144	0.391	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-028-SA7-SB-8.0-9.0	CADMIUM	J	0.0722	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0969	0.412	PQL	mg/Kg	
	SILVER	J	0.0176	0.103	PQL	mg/Kg	
SL-029-SA5DS-SS-0.0-0.5	SILVER	J	0.0472	0.101	PQL	mg/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	ANTIMONY	J	0.182	0.202	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0488	0.101	PQL	mg/Kg	
SL-031-SA5DS-SS-0.0-0.5	SILVER	J	0.0554	0.101	PQL	mg/Kg	J (all detects)
SL-032-SA5DS-SS-0.0-0.5	SILVER	J	0.0435	0.101	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA7-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-032-SA5DS-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.37	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	MERCURY	J	0.0115	0.0943	PQL	mg/Kg	J (all detects)
SL-001-SA5DS-SS-0.0-0.5	MERCURY	J	0.0133	0.0997	PQL	mg/Kg	J (all detects)
SL-002-SA5DS-SS-0.0-0.5	MERCURY	J	0.0222	0.0979	PQL	mg/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	MERCURY	J	0.0095	0.0996	PQL	mg/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	MERCURY	J	0.0076	0.0964	PQL	mg/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	MERCURY	J	0.0145	0.100	PQL	mg/Kg	J (all detects)
SL-031-SA5DS-SS-0.0-0.5	MERCURY	J	0.0130	0.100	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	Chlordane	J	2.4	3.4	PQL	ug/Kg	J (all detects)
SL-001-SA5DS-SS-0.0-0.5	Chlordane	J	2.0	3.4	PQL	ug/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	Chlordane	J	1.7	3.4	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DS-SS-0.0-0.5	BETA-BHC	J	0.14	0.17	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.052	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.040	0.17	PQL	ug/Kg	
SL-027-SA5DS-SS-0.0-0.5	4,4'-DDE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	1.3	1.7	PQL	ug/Kg	
SL-028-SA5DS-SS-0.0-0.5	Chlordane	J	10	17	PQL	ug/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	Chlordane	J	3.3	3.5	PQL	ug/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	ALPHA-BHC	J	0.090	0.17	PQL	ug/Kg	J (all detects)
	Chlordane	J	3.4	3.5	PQL	ug/Kg	
	ENDOSULFAN I	J	0.089	0.17	PQL	ug/Kg	
SL-032-SA5DS-SS-0.0-0.5	Chlordane	J	2.6	3.5	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.057	0.17	PQL	ug/Kg	
	METHOXYCHLOR	J	0.81	1.7	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	AROCLOR 1254	J	0.53	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	
	Aroclor 5460	J	3.0	3.3	PQL	ug/Kg	
SL-001-SA5DS-SS-0.0-0.5	Aroclor 5460	J	2.4	3.3	PQL	ug/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	AROCLOR 1254	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-002-SA5DS-SS-0.0-0.5	Aroclor 5460	J	3.3	3.4	PQL	ug/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	AROCLOR 1260	J	0.98	1.7	PQL	ug/Kg	J (all detects)
SL-030-SA5DS-SS-0.0-0.5	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SS-0.0-0.5	DICHLOROPROP	J	1.6	1.7	PQL	ug/Kg	J (all detects)
SL-002-SA3-SS-0.0-0.5	2,4-D	J	2.5	3.6	PQL	ug/Kg	J (all detects)
SL-026-SA5DS-SS-0.0-0.5	DINOSEB	J	0.86	2.4	PQL	ug/Kg	J (all detects)
SL-028-SA5DS-SS-0.0-0.5	MCPA	J	120	250	PQL	ug/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	2,4-DB	J	1.7	1.8	PQL	ug/Kg	J (all detects)
SL-032-SA5DS-SS-0.0-0.5	2,4,5-T	J	0.15	0.17	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	BIS(2-ETHYLHEXYL)PHTHALATE	J	51	330	PQL	ug/Kg	J (all detects)
	PHENOL	J	18	170	PQL	ug/Kg	
SL-001-SA5DS-SS-0.0-0.5	FLUORANTHENE	J	36	170	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	35	170	PQL	ug/Kg	
	PYRENE	J	24	170	PQL	ug/Kg	
SL-002-SA3-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	83	330	PQL	ug/Kg	J (all detects)
SL-026-SA5DS-SS-0.0-0.5	BENZO(A)PYRENE	J	1400	8300	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1400	8300	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1100	8300	PQL	ug/Kg	
	CHRYSENE	J	1500	8300	PQL	ug/Kg	
	FLUORANTHENE	J	1100	8300	PQL	ug/Kg	
	PYRENE	J	1300	8300	PQL	ug/Kg	
SL-028-SA5DS-SS-0.0-0.5	PHENOL	J	18	170	PQL	ug/Kg	J (all detects)
SL-029-SA5DS-SS-0.0-0.5	PHENOL	J	18	170	PQL	ug/Kg	J (all detects)
SL-031-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)
	PHENOL	J	20	170	PQL	ug/Kg	
SL-032-SA5DS-SS-0.0-0.5	PHENOL	J	18	170	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA5DS-QC-092611	BENZO(B)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.7	PQL	ug/Kg	
SL-001-SA3-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	5.9	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.97	1.6	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.6	PQL	ug/Kg	
	PYRENE	J	1.1	1.6	PQL	ug/Kg	
SL-001-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.49	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.9	18	PQL	ug/Kg	
SL-002-SA3-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.66	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.36	1.7	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.80	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
SL-002-SA5DS-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.70	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.96	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.1	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.88	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	
SL-026-SA5DS-SS-0.0-0.5	ACENAPHTHYLENE	J	0.48	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE253 **Laboratory: LL**

EDD Filename: DE253_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	3.9	8.4	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	90	PQL	ug/Kg	
	PHENANTHRENE	J	4.5	8.4	PQL	ug/Kg	
	PYRENE	J	7.4	8.4	PQL	ug/Kg	
SL-028-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.80	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.72	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.7	PQL	ug/Kg	
	PYRENE	J	0.82	1.7	PQL	ug/Kg	
SL-029-SA5DS-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	19	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.76	1.7	PQL	ug/Kg	
SL-030-SA5DS-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.94	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	
SL-032-SA5DS-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.81	1.7	PQL	ug/Kg	
	ANTHRACENE	J	0.57	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.3	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	9.6	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.7	PQL	ug/Kg	

LDC #: 26859W4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/30/11
SDG #: DE253 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	W	
III.	Calibration	W	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Cr, Fe, Pb, Mg, Mn, Ti, V, Zn 12 W (1-4X Cl-IV
VII.	Duplicate Sample Analysis	N A	Cd, Hg < 5X (1-4)
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Pb, Ni, V, Zn J/UJ (1-4) 12 W
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-001-SA3-SS-0.0-0.5	11	SL-032-SA5DS-SS-0.0-0.5	21	~~SL-08~~	31	
2	SL-002-SA3-SS-0.0-0.5	12	DUP01-SA5DS-QC-092611	22		32	
3	SL-002-SA5DS-SS-0.0-0.5	13	SL-001-SA5DS-SS-0.0-0.5MS	23		33	
4	SL-001-SA5DS-SS-0.0-0.5	14	SL-001-SA5DS-SS-0.0-0.5MSD	24		34	
5	SL-026-SA5DS-SS-0.0-0.5	15	SL-001-SA5DS-SS-0.0-0.5DUP	25		35	
6	SL-027-SA5DS-SS-0.0-0.5	16*	SL-028-SA7-SB-8.8-9.0	26		36	
7	SL-028-SA5DS-SS-0.0-0.5	17		27		37	
8	SL-029-SA5DS-SS-0.0-0.5	18		28		38	
9	SL-030-SA5DS-SS-0.0-0.5	19		29		39	
10	SL-031-SA5DS-SS-0.0-0.5	20		30		40	

Notes: * #16 batch with DE251, (see DE251 for MS/MSD + LR qualifiers)

LDC #: 26859W4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100X

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 16 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	16											
Zr			7.5	3.75	0.77											

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1-6 Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	5									
Zr			12.8	6.4	2.9	2.4	2.9									

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE253
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6419491BKG Matrix Spike Lab Sample ID: 6419492MS Matrix Spike Duplicate Lab Sample ID: 6419493MSD
% Solids for Sample: 99.3
Batch Id(s): P27108A, P27126A, P27111C

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		12168.5791		14058.4258		14074.8018		199.4157	199.4157	MG/KG	948		956		0		74X	20	P
Antimony	121	0.4360		1.0850		1.0320		1.2085	1.1965	MG/KG	54	N	50	N	5		75 - 125	20	MS
Arsenic	75	7.3633		11.1259		10.3577		2.0141	1.9942	MG/KG	187	N	150	N	7		75 - 125	20	MS
Barium	137	69.4272		82.8399		82.4983		10.0705	9.9708	MG/KG	133		131		0		74X	20	MS
Beryllium	9	0.4014		1.0512		1.0082		0.8056	0.7977	MG/KG	81		76		4		75 - 125	20	MS
Boron		7.4884		191.7990		194.7903		199.4157	199.4157	MG/KG	92		94		2		84 - 115	20	P
Cadmium	111	0.2944		1.7301		1.7158		1.0070	0.9971	MG/KG	143	N	143	N	1		75 - 125	20	MS
Calcium		5159.4532		6497.2879		6192.8689		398.8314	398.8314	MG/KG	335		259		5		74X	20	P
Chromium	52	54.1635		72.3666		70.5134		10.0705	9.9708	MG/KG	181		164		3		74X	20	MS
Cobalt	59	7.4225		64.0483		63.8928		50.3525	49.8539	MG/KG	112		113		0		75 - 125	20	MS
Copper	63	7.3673		20.6042		20.7392		10.0705	9.9708	MG/KG	131	N	134	N	1		75 - 125	20	MS
Iron		22864.4179		23193.1969		23625.6678		99.7079	99.7079	MG/KG	330		763		2		74X	20	P
Lead	208	40.0648		40.2618		43.5524		3.0211	2.9912	MG/KG	7		117		8		↓	20	MS
Lithium		16.2296		112.4804		112.6878		99.7079	99.7079	MG/KG	97		97		0		82 - 114	20	P
Magnesium		5632.2256		5918.5716		6015.4428		199.4157	199.4157	MG/KG	144		192		2		74X	20	P
Manganese		305.2860		357.6940		366.4014		49.8539	49.8539	MG/KG	105		123		2		↓	20	P
Mercury		0.0133	B	0.1407		0.1643		0.1623	0.1651	MG/KG	78		91		15		65 - 135	20	CV
Molybdenum	98	0.7573		15.3938		15.4148		10.0705	9.9708	MG/KG	145	N	147	N	0		75 - 125	20	MS
Nickel	60	14.0533		28.8218		28.2971		10.0705	9.9708	MG/KG	147	N	143	N	2		75 - 125	20	MS
Phosphorus		878.3323		980.7474		971.1236		99.7079	99.7079	MG/KG	103		93		1			20	P
Potassium		1758.4713		2999.8046		3000.9053		997.0786	997.0786	MG/KG	124		125		0		75 - 125	20	P
Selenium	78	0.2571	B	3.0232		2.9553		2.0141	1.9942	MG/KG	137	N	135	N	2		75 - 125	20	MS
Silver	107	0.0372	B	14.0262		14.0349		10.0705	9.9708	MG/KG	139	N	140	N	0		75 - 125	20	MS
Sodium		123.9537		1135.3813		1135.9038		997.0786	997.0786	MG/KG	101		101		0		75 - 125	20	P
Strontium		21.9869		119.6634		121.0942		99.7079	99.7079	MG/KG	98		99		1		75 - 115	20	P
Thallium	203	0.1719		0.7112		0.7340		0.4028	0.3988	MG/KG	134	N	141	N	3		75 - 125	20	MS
Tin		3.0020	B	364.0164		366.1302		398.8314	398.8314	MG/KG	91		91		1		80 - 110	20	P
Titanium		1242.7865		1769.9142		1788.7978		99.7079	99.7079	MG/KG	529		548		1		74X	20	P
Vanadium	51	98.0985		119.5972		118.2136		10.0705	9.9708	MG/KG	213		202		1		↓	20	MS
Zinc	66	72.7248		85.1360		85.7687		10.0705	9.9708	MG/KG	123		131		1		↓	20	MS
Zirconium		12.5196		106.5239		106.2347		99.7079	99.7079	MG/KG	94		94		0		75 - 125	20	P

DE253

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

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

SAMPLE DELIVERY GROUP

DE266

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	TB-101111	6434478	TB	3520C	1625C	III
11-Oct-2011	TB-101111	6434479	TB	3546	1625C	III
11-Oct-2011	TB-101111	6434480	TB	5030B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6010B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6020	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3060A	7199	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3546	1625C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8082	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C SIM	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	5035	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	8330	8330A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	300.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	7471A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8315A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	9012B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0DUP	P434468D270158A	DUP	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MSD	P434468M322139A	MSD	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R270221A	MS	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R322123A	MS	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6020	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3060A	7199	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3546	1625C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8082	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C SIM	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	5035	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	8330	8330A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	300.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	314.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	7471A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8315A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	9012B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6010B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6020	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3060A	7199	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3546	1625C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8082	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	5035	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	8330	8330A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	300.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	314.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	7471A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8315A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	9012B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6010B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6020	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3060A	7199	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3546	1625C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8082	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C SIM	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	8330	8330A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	300.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	314.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	7471A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8315A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6010B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6020	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3060A	7199	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8082	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C SIM	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	5035	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	300.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	314.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	7471A	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6010B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6020	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3060A	7199	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3546	1625C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8082	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C SIM	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	5035	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	300.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	314.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	7471A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8315A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MSD	P434470M320200A	MSD	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MS	P434470R320147A	MS	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6010B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6020	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3060A	7199	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3546	1625C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8082	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C SIM	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	5035	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	8330	8330A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	300.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	314.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	7471A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	9012B	III
11-Oct-2011	EB-SA7-SB-101111	6434477	EB	3520C	1625C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6010B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6020	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3060A	7199	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8082	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C SIM	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	300.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	314.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6010B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6020	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3060A	7199	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3546	1625C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8082	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C SIM	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	5035	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	8330	8330A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	300.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	314.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8315A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0DUP	P434472D272036B	DUP	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0MS	P434472R272037B	MS	METHOD	9012B	III

III = EPA Level 3 Data Review *N = 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: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.92	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.3	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19800		2.80	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2920		12.1	MDL	53.6	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.24	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.82	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	2670		11.3	MDL	50.0	PQL	mg/Kg	J	Q
TIN	2.80	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	77.8	J	5.95	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.83	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 11:22:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2180		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.81	J	0.332	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-147-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 11:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.6	J	6.17	MDL	104	PQL	mg/Kg	J	Z
Zirconium	1.56	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23200		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3360		11.3	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.87	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	82.9	J	5.96	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	3120		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.93	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.3	J	6.23	MDL	105	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19400		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3040		11.7	MDL	51.7	PQL	mg/Kg	J	Q
TIN	2.86	J	0.331	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.2	J	6.16	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-167-SA7-SB-0.5-1.5** ***Collected:*** **10/11/2011 9:25:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.69	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2990		11.7	MDL	51.6	PQL	mg/Kg	J	Q
TIN	2.95	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: **SL-167-SA7-SB-0.5-1.5** ***Collected:*** **10/11/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.9	J	6.14	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: **SL-168-SA7-SB-0.5-1.5** ***Collected:*** **10/11/2011 1:45:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.64	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	2930		11.4	MDL	50.5	PQL	mg/Kg	J	Q
TIN	2.82	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: **SL-168-SA7-SB-0.5-1.5** ***Collected:*** **10/11/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.1	J	6.01	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: **SL-265-SA6-SB-4.0-5.0** ***Collected:*** **10/11/2011 8:47:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20900		2.80	MDL	21.4	PQL	mg/Kg	J	E
POTASSIUM	2260		12.1	MDL	53.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: **SL-265-SA6-SB-4.0-5.0** ***Collected:*** **10/11/2011 8:47:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.90	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.932		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-009-SA3-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.298		0.0794	MDL	0.215	PQL	mg/Kg	J	Q
ARSENIC	9.87		0.0858	MDL	0.429	PQL	mg/Kg	J	E
COBALT	6.33		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	42.8		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	23.9		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.217		0.0152	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.432		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-049-SA7-SB-4.0-5.0 ***Collected:*** 10/11/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0824	MDL	0.412	PQL	mg/Kg	J	E
COBALT	6.87		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.41		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.103	MDL	0.412	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-049-SA7-SB-4.0-5.0** ***Collected:*** **10/11/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0173	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-147-SA7-SB-1.0-2.0** ***Collected:*** **10/11/2011 11:22:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: **SL-147-SA7-SB-1.0-2.0** ***Collected:*** **10/11/2011 11:22:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.286		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: **SL-147-SA7-SB-1.0-2.0** ***Collected:*** **10/11/2011 11:22:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0821	MDL	0.410	PQL	mg/Kg	J	E
COBALT	5.87		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	5.78		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.103	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: **SL-155-SA7-SB-1.5-2.5** ***Collected:*** **10/11/2011 12:32:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: **SL-155-SA7-SB-1.5-2.5** ***Collected:*** **10/11/2011 12:32:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.728		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: **SL-155-SA7-SB-1.5-2.5** ***Collected:*** **10/11/2011 12:32:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0801	MDL	0.401	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-155-SA7-SB-1.5-2.5 ***Collected:*** 10/11/2011 12:32:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	10.7		0.0801	MDL	0.401	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0252	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.424		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-162-SA7-SB-0.0-1.0 ***Collected:*** 10/11/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.37		0.0821	MDL	0.411	PQL	mg/Kg	J	E
COBALT	6.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.65		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0222	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 ***Collected:*** 10/11/2011 10:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.408		0.0517	MDL	0.103	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.64		0.0828	MDL	0.414	PQL	mg/Kg	J	E
COBALT	6.26		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.59		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0511	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0756	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.78		0.0818	MDL	0.409	PQL	mg/Kg	J	E
COBALT	6.74		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	8.76		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
NICKEL	13.4		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0378	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 Laboratory: LL

EDD Filename: DE266_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.320		0.0510	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0933	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	3.49		0.0816	MDL	0.408	PQL	mg/Kg	J	E
COBALT	5.04		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	6.34		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
NICKEL	9.62		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0234	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	5.19		0.0857	MDL	0.429	PQL	mg/Kg	J	E
CADMIUM	0.103	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
COBALT	5.62		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	8.96		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 **Collected:** 10/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0 **Collected:** 10/11/2011 11:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-009-SA3-SB-4.0-5.0 **Collected:** 10/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0712	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 **Collected:** 10/11/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0070	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 **Collected:** 10/11/2011 12:32:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA **Method:** 1625C **Matrix:** AQ

Sample ID: EB-SA7-SB-101111 *Collected:* 10/11/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.07		0.483	MDL	0.965	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101111 *Collected:* 10/11/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.16		0.499	MDL	0.997	PQL	ng/L	UJ	B, S

Method Category: SVOA **Method:** 1625C **Matrix:** SO

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.2	J	17.2	MDL	34.4	PQL	ng/Kg	J	Z

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

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory:** LL

EDD Filename: DE266_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 26.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.9	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.5	J	5.5	MDL	11	PQL	mg/Kg	J	Z

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-166-SA7-SB-1.0-2.0** ***Collected:*** **10/11/2011 10:40:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-167-SA7-SB-0.5-1.5** ***Collected:*** **10/11/2011 9:25:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
ACENAPHTHENE	57	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	17	MDL	350	PQL	ug/Kg	J	Z
DIBENZOFURAN	53	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-168-SA7-SB-0.5-1.5** ***Collected:*** **10/11/2011 1:45:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	80	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Method Category: SVOA

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

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	78	J	32	MDL	95	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	32	MDL	95	PQL	ug/Kg	J	Z
CHRYSENE	6.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.8	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	5.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.9	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	550	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE266

Method Blank Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101111 TB-101111

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L
TB-101111(RES)	N-NITROSODIMETHYLAMINE	1.16 ng/L	1.16U ng/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-009-SA3-SB-4.0-5.0(REA)	TIN	4.24 mg/Kg	4.24U mg/Kg
SL-049-SA7-SB-4.0-5.0(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-147-SA7-SB-1.0-2.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-155-SA7-SB-1.5-2.5(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-162-SA7-SB-0.0-1.0(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-166-SA7-SB-1.0-2.0(REA)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-167-SA7-SB-0.5-1.5(REA)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-168-SA7-SB-0.5-1.5(REA)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-265-SA6-SB-4.0-5.0(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

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

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101111(RES)	10/11/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.16 ng/L	EB-SA7-SB-101111 SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	Isopropanol METHANOL	- -	- -	12.00-149.00 43.00-138.00	51 (20.00) 49 (20.00)	Isopropanol METHANOL	J (all detects)
SL-265-SA6-SB-4.0-5.0MS **SL-265-SA6-SB-4.0-5.0MSD** (SL-265-SA6-SB-4.0-5.0)	ETHANOL	43	-	48.00-130.00	48 (20.00)	ETHANOL	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA7-SB-1.5-2.5MS **SL-155-SA7-SB-1.5-2.5MSD** (SL-155-SA7-SB-1.5-2.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 43 52	8 42 50	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28526AQ220817A (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	ANTIMONY	139	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	116 113 107 109	- - - -	66.00-110.00 68.00-111.00 70.00-104.00 63.00-107.00	- - - -	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMI	J(all detects)
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL -049-SA7-SB-4.0-5.0 SL -147-SA7-SB-1.0-2.0 SL -155-SA7-SB-1.5-2.5 SL -162-SA7-SB-0.0-1.0 SL -166-SA7-SB-1.0-2.0 SL -167-SA7-SB-0.5-1.5 SL -168-SA7-SB-0.5-1.5 SL -265-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-101111	N-Nitrosodimethylamine-d6	320	50.00-150.00	All Target Analytes	J (all detects)
TB-101111	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA7-SB-1.5-2.5	N-NITROSODIMETHYLAMINE	J	22.2	34.4	PQL	ng/Kg	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-168-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	TIN	J	4.24	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.82	5.36	PQL	mg/Kg	
SL-049-SA7-SB-4.0-5.0	SODIUM	J	77.8	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.0	PQL	mg/Kg	
	Zirconium	J	1.83	5.00	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	SODIUM	J	69.6	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.4	PQL	mg/Kg	
	Zirconium	J	1.56	5.18	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	SODIUM	J	82.9	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.87	10.0	PQL	mg/Kg	
	Zirconium	J	1.85	5.01	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	SODIUM	J	64.3	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.5	PQL	mg/Kg	
	Zirconium	J	1.88	5.23	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	SODIUM	J	72.2	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.17	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	SODIUM	J	64.9	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.16	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	SODIUM	J	63.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.1	PQL	mg/Kg	
	Zirconium	J	1.85	5.05	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	TIN	J	3.02	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.90	5.36	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	SELENIUM	J	0.100	0.429	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	ANTIMONY	J	0.142	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.412	PQL	mg/Kg	
	SILVER	J	0.0173	0.103	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	ANTIMONY	J	0.152	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.410	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	ANTIMONY	J	0.146	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.216	0.401	PQL	mg/Kg	
	SILVER	J	0.0252	0.100	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	ANTIMONY	J	0.135	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.411	PQL	mg/Kg	
	SILVER	J	0.0222	0.103	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	ANTIMONY	J	0.168	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.414	PQL	mg/Kg	
	SILVER	J	0.0263	0.103	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	ANTIMONY	J	0.163	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.409	PQL	mg/Kg	
	SILVER	J	0.0378	0.102	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	ANTIMONY	J	0.0933	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0808	0.408	PQL	mg/Kg	
	SILVER	J	0.0234	0.102	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	ANTIMONY	J	0.182	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.103	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0999	0.429	PQL	mg/Kg	
	SILVER	J	0.0402	0.107	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	MERCURY	J	0.0712	0.109	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	MERCURY	J	0.0087	0.0988	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	MERCURY	J	0.0073	0.0992	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	MERCURY	J	0.0085	0.104	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	MERCURY	J	0.0099	0.102	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	GASOLINE RANGE ORGANICS (C5-C12)	J	0.9	1.1	PQL	mg/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	ETHYLENE GLYCOL	J	5.5	11	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	AROCLOR 1248	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.0	3.5	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	Aroclor 5460	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.89	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA7-SB-1.0-2.0	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	35	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	170	PQL	ug/Kg	
	CHRYSENE	J	30	170	PQL	ug/Kg	
	FLUORANTHENE	J	55	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	18	170	PQL	ug/Kg	
	PHENANTHRENE	J	27	170	PQL	ug/Kg	
	PYRENE	J	44	170	PQL	ug/Kg	
SL-167-SA7-SB-0.5-1.5	ACENAPHTHENE	J	57	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	350	PQL	ug/Kg	
	DIBENZOFURAN	J	53	170	PQL	ug/Kg	
	FLUORENE	J	58	170	PQL	ug/Kg	
	PHENOL	J	19	170	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	BENZO(A)ANTHRACENE	J	38	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	65	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	47	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	
	CHRYSENE	J	45	170	PQL	ug/Kg	
	FLUORANTHENE	J	94	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	40	170	PQL	ug/Kg	
	PHENANTHRENE	J	49	170	PQL	ug/Kg	
	PYRENE	J	80	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE266 **Laboratory: LL**

EDD Filename: DE266_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-009-SA3-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	PYRENE	J	0.75	1.7	PQL	ug/Kg	
SL-147-SA7-SB-1.0-2.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	
SL-155-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	6.2	8.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.6	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.2	8.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	78	95	PQL	ug/Kg	
	Butylbenzylphthalate	J	58	95	PQL	ug/Kg	
	CHRYSENE	J	6.9	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.8	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	5.2	8.8	PQL	ug/Kg	
SL-166-SA7-SB-1.0-2.0	ANTHRACENE	J	2.9	8.7	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.72	1.8	PQL	ug/Kg	

LDC #: 26923C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/6/17
SDG #: DE266 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	7665
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A SRM	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-265-SA6-SB-4.0-5.0	11		21		31	
2	SL-147-SA7-SB-1.0-2.0	12		22		32	
3	SL-155-SA7-SB-1.5-2.5	13		23		33	
4	SL-009-SA7-SB-4.0-5.0	14		24		34	
5	SL-049-SA7-SB-4.0-5.0	15		25		35	
6	SL-162-SA7-SB-0.0-1.0	16		26		36	
7	SL-166-SA7-SB-1.0-2.0	17		27		37	
8	SL-167-SA7-SB-0.5-1.5	18		28		38	
9	SL-168-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes:

SAMPLE DELIVERY GROUP

DE267

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Oct-2011	TB-101211	6435699	TB	3520C	1625C	III
12-Oct-2011	TB-101211	6435700	TB	3546	1625C	III
12-Oct-2011	TB-101211	6435701	TB	5030B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435690	N	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	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
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435691	MS	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3546	1625C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8082	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8270C	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	3550B	8270C SIM	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	8330	8330A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8015B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	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
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435692	MSD	METHOD	8315A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3050B	6010B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3050B	6020	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	3060A	7199	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	300.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	314.0	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	7471A	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0DUP	6435693	DUP	METHOD	9012B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	P435690M252200B	MSD	5035	8015M	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	P435690R252122B	MS	5035	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3050B	6010B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3050B	6020	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3060A	7199	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3546	1625C	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8015B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8082	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8270C	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	3550B	8270C SIM	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	5035	8015M	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	8330	8330A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	300.0	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	314.0	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	7471A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8015B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	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
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	8315A	III
12-Oct-2011	DUP01-SA3-QC-101211	6435697	FD	METHOD	9012B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3050B	6010B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3050B	6020	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3060A	7199	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3546	1625C	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8015B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8082	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8270C	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	3550B	8270C SIM	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	5035	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	8330	8330A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	300.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	314.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	7471A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8015B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8015M	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	8315A	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435696	N	METHOD	9012B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0DUP	P435696D271115A	DUP	METHOD	300.0	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0MS	P435696R271130A	MS	METHOD	300.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3005A	6010B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3020A	6020	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8015B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	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
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8082	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8270C	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3510C	8270C SIM	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	3520C	1625C	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	5030B	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	8330	8330A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	300.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	314.0	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	7199	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	8015B	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	7470A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	8315A	III
12-Oct-2011	EB-SA3-SB-101211	6435702	EB	METHOD	9012B	III
12-Oct-2011	EB-SA3-SB-101211MSD	P435702M322133A	MSD	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211MS	P435702R322120A	MS	Gen Prep	8015M	III
12-Oct-2011	EB-SA3-SB-101211	6435698	EB	3520C	1625C	III

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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: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.80	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.96	J	0.80	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.0	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0047	J	0.0022	MDL	0.0500	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.21	J	0.358	MDL	4.97	PQL	mg/Kg	J	Z
PHOSPHORUS	291		0.348	MDL	9.95	PQL	mg/Kg	J	Q, E
TIN	2.81	J	0.318	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	2.91	J	0.458	MDL	4.97	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.50	J	0.357	MDL	4.96	PQL	mg/Kg	J	Z
PHOSPHORUS	289		0.347	MDL	9.93	PQL	mg/Kg	J	Q, E
SODIUM	89.3	J	5.91	MDL	99.3	PQL	mg/Kg	J	Z
TIN	2.72	J	0.318	MDL	9.93	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.457	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.77	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z
PHOSPHORUS	276		0.366	MDL	10.4	PQL	mg/Kg	J	Q, E
TIN	2.77	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.481	MDL	5.22	PQL	mg/Kg	J	Z

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

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0591	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, FD

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.363		0.0502	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	63.0		0.106	MDL	0.402	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0743	U	0.0743	MDL	0.201	PQL	mg/Kg	UJ	Q, E
ARSENIC	3.83		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.0958	J	0.0442	MDL	0.100	PQL	mg/Kg	J	Z, Q
CHROMIUM	12.6		0.121	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	4.87		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	6.91		0.0804	MDL	0.402	PQL	mg/Kg	J	A
LEAD	5.20		0.0102	MDL	0.201	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	8.45		0.100	MDL	0.402	PQL	mg/Kg	J	E, A
SILVER	0.0334	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
VANADIUM	26.0		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, E, A
ZINC	49.4		0.563	MDL	3.01	PQL	mg/Kg	J	A

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z, FD

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.290		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.2		0.107	MDL	0.405	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0749	U	0.0749	MDL	0.202	PQL	mg/Kg	UJ	Q, E
ARSENIC	6.41		0.0810	MDL	0.405	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.127		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	17.8		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	6.94		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory:** LL

EDD Filename: DE267_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.20		0.0810	MDL	0.405	PQL	mg/Kg	J	A
LEAD	8.25		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	12.3		0.101	MDL	0.405	PQL	mg/Kg	J	E, A
SILVER	0.0395	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
VANADIUM	35.2		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, E, A
ZINC	68.2		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.325		0.0522	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	53.8		0.111	MDL	0.418	PQL	mg/Kg	J	E, A

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, E
ARSENIC	3.62		0.0836	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0640	J	0.0460	MDL	0.104	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.4		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COBALT	4.50		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	6.05		0.0836	MDL	0.418	PQL	mg/Kg	J	A
LEAD	4.34		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, Q, E, E, A
NICKEL	7.27		0.104	MDL	0.418	PQL	mg/Kg	J	E, A
SILVER	0.0188	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q
VANADIUM	24.5		0.0230	MDL	0.104	PQL	mg/Kg	J	Q, E, A
ZINC	46.8		0.585	MDL	3.13	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: SVOA **Method:** 1625C **Matrix:** AQ

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:23:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.69		0.534	MDL	1.07	PQL	ng/L	UJ	B, S, T

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 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
N-NITROSODIMETHYLAMINE	2.54		0.508	MDL	1.02	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101211 *Collected:* 10/12/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.03		0.492	MDL	0.983	PQL	ng/L	UJ	B, S

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

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.48	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES *Dilution:* 27.35

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	U	0.2	MDL	1.1	PQL	mg/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 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
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 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 (C15-C20)	0.45	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q
EFH (C21-C30)	1.7		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q
EFH (C30-C40)	5.1		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 24.65

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	3.2		0.2	MDL	1.0	PQL	mg/Kg	J	FD

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C15-C20)	0.70	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 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
AROCLOR 1260	0.48	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.67	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

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

Sample ID: DUP01-SA3-QC-101211 *Collected:* 10/12/2011 10:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 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
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	Q, L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	R	Q
PENTACHLOROPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	Q

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	17	MDL	350	PQL	ug/Kg	J	Z
PHENOL	18	J	17	MDL	170	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 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
Diethylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.28	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory:** LL

EDD Filename: DE267_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP01-SA3-QC-101211 ***Collected:*** 10/12/2011 10:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA3-SB-4.0-5.0 ***Collected:*** 10/12/2011 10:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-096-SA7-SB-2.0-3.0 ***Collected:*** 10/12/2011 11:40:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.82	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.70	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.77	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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE267

Method Blank Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA3-SB-101211 TB-101211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101211(REA)	N-NITROSODIMETHYLAMINE	2.69 ng/L	2.69U ng/L
EB-SA3-SB-101211(RES)	N-NITROSODIMETHYLAMINE	2.54 ng/L	2.54U ng/L
TB-101211(RES)	N-NITROSODIMETHYLAMINE	1.03 ng/L	1.03U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29248FB221946	10/21/2011 7:46:00 PM	MANGANESE	0.00046 mg/L	EB-SA3-SB-101211

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28708BB220046	10/24/2011 12:46:00 AM	CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	7.22 mg/Kg 4.39 mg/Kg 0.877 mg/Kg 0.0440 mg/Kg 1.13 mg/Kg 0.0380 mg/Kg 1.43 mg/Kg	DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-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
DUP01-SA3-QC-101211(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-011-SA3-SB-4.0-5.0(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-096-SA7-SB-2.0-3.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28726AB220450A	10/18/2011 4:50:00 AM	ARSENIC LEAD VANADIUM	0.0815 mg/Kg 0.0143 mg/Kg 0.0333 mg/Kg	DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0

Trip Blank Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101211(RES)	10/12/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.03 ng/L	DUP01-SA3-QC-101211 EB-SA3-SB-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-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
EB-SA3-SB-101211(REA)	N-NITROSODIMETHYLAMINE	2.69 ng/L	2.69U ng/L
EB-SA3-SB-101211(RES)	N-NITROSODIMETHYLAMINE	2.54 ng/L	2.54U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA3-SB-101211MS EB-SA3-SB-101211MSD (EB-SA3-SB-101211)	ETHYLENE GLYCOL Propylene glycol	137 135	137 135	89.00-125.00 91.00-128.00	- -	ETHYLENE GLYCOL Propylene glycol	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-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	- - 132 165 -	894 1343 329 - 129	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	169 (20.00) 172 (20.00) 63 (20.00) 22 (20.00) 73 (20.00)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	5 47 -	8 45 62	59.00-109.00 63.00-107.00 63.00-107.00	42 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	CADMIUM COBALT SILVER	128 128 131	- - -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CADMIUM COBALT SILVER	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	LEAD ZINC	134 5	29 -20	75.00-125.00 75.00-125.00	29 (20.00) -	LEAD ZINC	J(all detects) R(all non-detects) Zn, No Qual, >4x Pb post spike = -196%
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ANTIMONY ARSENIC CHROMIUM VANADIUM	58 64 - -	42 39 71 34	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	32 (20.00) - - -	ANTIMONY ARSENIC CHROMIUM VANADIUM	J(all detects) UJ(all non-detects)
SL-011-SA3-SB-4.0-5.0MS (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	MOLYBDENUM	133	-	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	BARIUM	48	-93	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_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-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ALUMINUM IRON MAGNESIUM MANGANESE	1904 2018 259 129	866 859 223 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	CALCIUM	-110	57	75.00-125.00	-	CALCIUM	No Qual, >4x
SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	PHOSPHORUS	-	258	75.00-125.00	39 (20.00)	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-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	ISOPHORONE	108	107	73.00-102.00	-	ISOPHORONE	J(all detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	0 0	20.00-143.00 10.00-173.00	- -	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (SL-011-SA3-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	10 24	- -	11.00-126.00 28.00-127.00	- 52 (30.00)	4,6-DINITRO-2-METHYLPHEN PENTACHLOROPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS (SL-011-SA3-SB-4.0-5.0)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-011-SA3-SB-4.0-5.0MS SL-011-SA3-SB-4.0-5.0MSD (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	TITANIUM	258	255	75.00-125.00	-	TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_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-096-SA7-SB-2.0-3.0MS (DUP01 -SA3-QC-101211 SL -096-SA7-SB-2.0-3.0)	FLUORIDE	38	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA3-SB-4.0-5.0DUP (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	Zirconium	35	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-011-SA3-SB-4.0-5.0DUP (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ARSENIC	21	20.00	
	BARIUM	22	20.00	
	LEAD	24	20.00	J(all detects) UJ(all non-detects)
	NICKEL	21	20.00	
	SELENIUM	30	20.00	
	SILVER	73	20.00	Se, Ag, Tl, No Qual, OK by Difference
	THALLIUM	27	20.00	
	VANADIUM	22	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12910AQ322054A (EB-SA3-SB-101211)	ETHYLENE GLYCOL Propylene glycol	137 140	- -	78.00-136.00 65.00-132.00	- -	ETHYLENE GLYCOL Propylene glycol	J (all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSY260627 (EB-SA3-SB-101211)	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	- - -	109 114 112	79.00-107.00 75.00-109.00 53.00-110.00	- - -	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28726AQ220453A (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	ANTIMONY	77	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	116 113 107 109	- - - -	66.00-110.00 68.00-111.00 70.00-104.00 63.00-107.00	- - - -	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMI	J(all detects)
P0LELCSQ260920 (DUP01-SA3-QC-101211 SL-011-SA3-SB-4.0-5.0 SL-096-SA7-SB-2.0-3.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB-SA3-SB-101211	N-Nitrosodimethylamine-d6 N-Nitrosodimethylamine-d6	347 305	50.00-150.00 50.00-150.00	All Target Analytes	J (all detects)
TB-101211	N-Nitrosodimethylamine-d6	190	50.00-150.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
MOISTURE	2.2	2.4	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
FLUORIDE	2.1	2.2	5	50.00	No Qualifiers Applied
Nitrate-NO3	1.0	0.96	4	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
ALUMINUM	9830	10500	7	50.00	No Qualifiers Applied
BORON	3.50	3.21	9	50.00	
CALCIUM	5160	7000	30	50.00	
IRON	17400	19400	11	50.00	
LITHIUM	24.7	28.7	15	50.00	
MAGNESIUM	3410	3920	14	50.00	
MANGANESE	238	264	10	50.00	
PHOSPHORUS	289	291	1	50.00	
POTASSIUM	1970	2320	16	50.00	
SODIUM	89.3	125	33	50.00	
STRONTIUM	19.5	26.1	29	50.00	
TIN	2.72	2.81	3	50.00	
TITANIUM	1080	1030	5	50.00	
Zirconium	2.86	2.91	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
BARIUM	85.2	63.0	30	50.00	No Qualifiers Applied
BERYLLIUM	0.689	0.471	38	50.00	
CADMIUM	0.127	0.0958	28	50.00	
CHROMIUM	17.8	12.6	34	50.00	
COBALT	6.94	4.87	35	50.00	
COPPER	9.20	6.91	28	50.00	
LEAD	8.25	5.20	45	50.00	
MOLYBDENUM	0.290	0.363	22	50.00	
NICKEL	12.3	8.45	37	50.00	
SILVER	0.0395	0.0334	17	50.00	
THALLIUM	0.312	0.215	37	50.00	
VANADIUM	35.2	26.0	30	50.00	
ZINC	68.2	49.4	32	50.00	
ARSENIC	6.41	3.83	50	50.00	J(all detects)
SELENIUM	0.167	0.0591	95	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE267 Laboratory: LL

EDD Filename: DE267_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
EFH (C15-C20)	0.45	0.48	6	50.00	No Qualifiers Applied
EFH (C21-C30)	1.7	2.4	34	50.00	
EFH (C30-C40)	5.1	6.5	24	50.00	
GASOLINE RANGE ORGANICS (C5-C12)	3.2	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
AROCLOR 1260	0.48	1.2	86	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
BENZO(G,H,I)PERYLENE	0.73	0.88	19	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	0.78	1.7 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-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
PH	8.55	8.65	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE267 **Laboratory: LL**

EDD Filename: DE267_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	BORON	J	0.0047	0.0500	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	Diethylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.28	1.1	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	Nitrate-NO3	J	0.96	1.5	PQL	mg/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.0	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	BORON	J	3.21	4.97	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	9.95	PQL	mg/Kg	
	Zirconium	J	2.91	4.97	PQL	mg/Kg	
SL-011-SA3-SB-4.0-5.0	BORON	J	3.50	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.3	99.3	PQL	mg/Kg	
	TIN	J	2.72	9.93	PQL	mg/Kg	
	Zirconium	J	2.86	4.96	PQL	mg/Kg	
SL-096-SA7-SB-2.0-3.0	BORON	J	3.77	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.4	PQL	mg/Kg	
	Zirconium	J	3.08	5.22	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	CADMIUM	J	0.0958	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0591	0.402	PQL	mg/Kg	
	SILVER	J	0.0334	0.100	PQL	mg/Kg	
SL-011-SA3-SB-4.0-5.0	SELENIUM	J	0.167	0.405	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0395	0.101	PQL	mg/Kg	
SL-096-SA7-SB-2.0-3.0	CADMIUM	J	0.0640	0.104	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0188	0.104	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE267 | Laboratory: LL

EDD Filename: DE267_v1 | eQAPP Name: CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	EFH (C15-C20)	J	0.48	1.2	PQL	mg/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	EFH (C15-C20)	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	EFH (C12-C14) EFH (C15-C20)	J J	1.0 0.70	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	AROCLOR 1260	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	AROCLOR 1260	J	0.48	1.7	PQL	ug/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	AROCLOR 1260	J	0.67	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA7-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE PHENOL	J J	35 18	350 170	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	BENZO(G,H,I)PERYLENE	J	0.88	1.7	PQL	ug/Kg	J (all detects)
SL-011-SA3-SB-4.0-5.0	BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE	J J	0.78 0.73	1.7 1.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-096-SA7-SB-2.0-3.0	BENZO(K)FLUORANTHENE CHRYSENE FLUORANTHENE NAPHTHALENE PHENANTHRENE PYRENE	J J J J J J	1.3 0.82 1.6 0.70 0.77 1.2	1.7 1.7 1.7 1.7 1.7 1.7	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

LDC #: 26979C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012

SDG #: DE267 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, Ti, Zn 74%)
VII.	Duplicate Sample Analysis	N	Dup (Se, Ag, Tl, Zr <5xRL, No Qual)
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	
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-011-SA3-SB-4.0-5.0	11		21		31	
2	SL-096-SA7-SB-2.0-3.0	12		22		32	
3	DUP01-SA3-QC-101211	13		23		33	
4	EB-SA3-SB-101211 W	14		24		34	
5	SL-011-SA3-SB-4.0-5.0MS	15		25		35	
6	SL-011-SA3-SB-4.0-5.0MSD	16		26		36	
7	SL-011-SA3-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26979C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All ~~Sed~~ Soil

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Quals									
Tl			0.11	0.11										
Hg			0.021	0.04										

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 #: 26979C4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

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? Reason: F

Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 10/12/11 Soil factor applied 100x; Hg=167x S,O
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All ~~Sediment~~

Analyte	Blank ID	Sample Identification										
	~~104~~	Action Level	No Quals									
B	4.7	2.35										

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.: DE267
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6435690BKG Serial Dilution Lab Sample ID: 6435690L
Batch ID(s): P28708B, P28726A, P29708D
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		99025.3300		99090.2000		0		P
Antimony	121	0.3700	U	1.8500	U			MS
Arsenic	75	31.6600		27.4350		13		MS
[redacted]	137	420.6000		341.5000		19	E	MS
Beryllium	9	3.4040		3.1300		8		MS
Boron		35.3000	B	63.8000	B	81		P
Cadmium	111	0.6250		1.1000	U	100		MS
Calcium		51949.4800		52577.1500		1		P
Chromium	52	87.7500		80.0500		9		MS
[redacted]	59	34.2800		26.9550		21	E	MS
[redacted]	63	45.4500		37.2350		18	E	MS
Iron		175354.9400		166502.7000		5		P
[redacted]	208	40.7300		33.0050		19	E	MS
Lithium		248.4100		253.3500		2		P
Magnesium		34397.3600		34587.6500		1		P
Manganese		2397.1300		2418.0500		1		P
Molybdenum	98	1.4320		1.3960	B	3		MS
[redacted]	60	60.5400		47.9050		21	E	MS
Phosphorus		2915.1500		2844.4000		2		P
Potassium		19842.7100		18968.7000		4		P
Selenium	78	0.8231	B	1.4500	U	100		MS
Silver	107	0.1949	B	0.3550	U	100		MS
Sodium		899.0600	B	846.2500	B	6		P
Strontium		196.6900		192.2500		2		P
Thallium	203	1.5420		1.2380	B	20		MS
Tin		27.4400	B	28.9000	B	5		P
Titanium		10977.8900		11360.6500		3		P
[redacted]	51	174.0000		152.4000		12	E	MS
[redacted]	66	337.0000		275.0000		18	E	MS
Zirconium		28.8600	B	42.8500	B	48		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

DE267 2944

SAMPLE DELIVERY GROUP

DE268

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-Oct-2011	TB-101311	6437203	TB	3520C	1625C	III
13-Oct-2011	TB-101311	6437204	TB	3546	1625C	III
13-Oct-2011	TB-101311	6437205	TB	5030B	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3050B	6010B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3050B	6020	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3060A	7199	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3546	1625C	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8015B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8082	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8270C	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	3550B	8270C SIM	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	5035	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	8330	8330A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	300.0	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	314.0	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	7471A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8015B	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8015M	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	8315A	III
13-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437194	N	METHOD	9012B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3050B	6010B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3050B	6020	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3060A	7199	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3546	1625C	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	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-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8082	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8270C	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	3550B	8270C SIM	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	5035	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	8330	8330A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	300.0	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	314.0	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	7471A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8015B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8015M	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	8315A	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437193	N	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3546	1625C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	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-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437195	N	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3546	1625C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	314.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437196	MS	METHOD	9012B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	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-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8082	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8270C	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	3550B	8270C SIM	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	5035	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	8330	8330A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8015B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8015M	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437197	MSD	METHOD	8315A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3050B	6010B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3050B	6020	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	3060A	7199	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	300.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	314.0	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	7471A	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5DUP	6437198	DUP	METHOD	9012B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3050B	6010B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3050B	6020	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3060A	7199	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3546	1625C	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8015B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8082	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	3550B	8270C SIM	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	5035	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	8330	8330A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	300.0	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	314.0	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	7471A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8015B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8015M	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	8315A	III
13-Oct-2011	DUP09-SA7-QC-101311	6437201	FD	METHOD	9012B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3005A	6010B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3020A	6020	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8015B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8082	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8270C	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3510C	8270C SIM	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	3520C	1625C	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	5030B	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	8330	8330A	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	300.0	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	314.0	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	7199	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	8015B	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	Gen Prep	8015M	III
13-Oct-2011	EB-SA7-SB-101311	6437206	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
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	8315A	III
13-Oct-2011	EB-SA7-SB-101311	6437206	EB	METHOD	9012B	III
13-Oct-2011	EB-SA7-SB-101311	6437202	EB	3520C	1625C	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.96	U	0.96	MDL	1.2	PQL	mg/Kg	UJ	Q
Nitrate-NO3	1.7	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0068	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00051	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
IRON	22600		2.84	MDL	21.8	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
TIN	2.56	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.813	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.17	J	0.392	MDL	5.44	PQL	mg/Kg	U	F

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2440		12.2	MDL	53.9	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.86	MDL	21.9	PQL	mg/Kg	J	E
TIN	2.73	J	0.350	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	1.56	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1800		12.0	MDL	53.2	PQL	mg/Kg	J	Q

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	15300		3.08	MDL	23.6	PQL	mg/Kg	J	E
TIN	2.60	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	1.06	J	0.543	MDL	5.90	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2170		13.3	MDL	59.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 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
IRON	22900		2.85	MDL	21.8	PQL	mg/Kg	J	E
TIN	2.96	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.02	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.17	J	0.392	MDL	5.45	PQL	mg/Kg	U	F

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2680		12.4	MDL	55.0	PQL	mg/Kg	J	Q

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

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000089	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z
ZINC	0.0056	J	0.0040	MDL	0.0150	PQL	mg/L	J	Z

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
SELENIUM	0.191	J	0.0631	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
BARIUM	100		0.115	MDL	0.435	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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	0.0805	U	0.0805	MDL	0.218	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0996	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	22.6		0.131	MDL	0.435	PQL	mg/Kg	J	A
COBALT	7.69		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	10.7		0.0871	MDL	0.435	PQL	mg/Kg	J	A
LEAD	6.46		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	14.9		0.109	MDL	0.435	PQL	mg/Kg	J	A
SILVER	0.0387	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	45.1		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, A

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0769	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.113	MDL	0.425	PQL	mg/Kg	J	A

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0787	MDL	0.213	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0489	J	0.0468	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	18.0		0.128	MDL	0.425	PQL	mg/Kg	J	A
COBALT	6.22		0.0213	MDL	0.106	PQL	mg/Kg	J	A
COPPER	6.71		0.0851	MDL	0.425	PQL	mg/Kg	J	A
LEAD	6.14		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, A
NICKEL	11.4		0.106	MDL	0.425	PQL	mg/Kg	J	A
SILVER	0.0647	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	65.0		0.126	MDL	0.477	PQL	mg/Kg	J	A

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0882	U	0.0882	MDL	0.238	PQL	mg/Kg	UJ	Q
CHROMIUM	14.0		0.143	MDL	0.477	PQL	mg/Kg	J	A
COBALT	4.28		0.0238	MDL	0.119	PQL	mg/Kg	J	A
COPPER	5.13		0.0954	MDL	0.477	PQL	mg/Kg	J	A
LEAD	3.65		0.0122	MDL	0.238	PQL	mg/Kg	J	Q, A
NICKEL	7.76		0.119	MDL	0.477	PQL	mg/Kg	J	A
SILVER	0.0206	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	28.7		0.0262	MDL	0.119	PQL	mg/Kg	J	Q, A

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.4		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0831	MDL	0.225	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0810	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	19.6		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	6.53		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	9.47		0.0898	MDL	0.449	PQL	mg/Kg	J	A
LEAD	5.14		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	13.1		0.112	MDL	0.449	PQL	mg/Kg	J	A
SILVER	0.0383	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.8		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

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

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
MERCURY	0.0078	U	0.0078	MDL	0.111	PQL	mg/Kg	UJ	FD

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 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
MERCURY	0.0077	J	0.0075	MDL	0.107	PQL	mg/Kg	UJ	FD, B

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* REA-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.50		0.524	MDL	1.05	PQL	ng/L	U	B

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.61		0.486	MDL	0.972	PQL	ng/L	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 1625C **Matrix:** AQ

Sample ID: TB-101311 *Collected:* 10/13/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.23		0.501	MDL	1.00	PQL	ng/L	U	B

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 12:40:00 *Analysis Type:* REA *Dilution:* 24.08

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.2	U	0.2	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
EFH (C15-C20)	0.63	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.45	U	0.45	MDL	1.3	PQL	mg/Kg	UJ	FD

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 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
EFH (C15-C20)	0.59	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	6.2		0.45	MDL	1.4	PQL	mg/Kg	J	Q
EFH (C8-C11)	0.58	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z, Q, Q, FD

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* REA2 *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

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 25.3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1254	1.5	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, FD
AROCLOR 1260	0.90	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z, FD
Aroclor 5460	14		1.1	MDL	3.7	PQL	ug/Kg	J	FD

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.39	U	0.39	MDL	2.0	PQL	ug/Kg	UJ	L

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 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
3,5-Dimethylphenol	37	U	37	MDL	190	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	370	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	0.11	J	0.049	MDL	0.98	PQL	ug/L	J	Z
Di-n-butylphthalate	0.19	J	0.049	MDL	0.98	PQL	ug/L	J	Z

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

Sample ID: DUP09-SA7-QC-101311 *Collected:* 10/13/2011 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	8.7		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	14		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	18		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	9.0		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	6.6		0.75	MDL	1.9	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	28		6.7	MDL	20	PQL	ug/Kg	J	FD
CHRYSENE	10		0.37	MDL	1.9	PQL	ug/Kg	J	FD
DIBENZO(A,H)ANTHRACENE	2.2		0.75	MDL	1.9	PQL	ug/Kg	J	FD
FLUORANTHENE	8.7		0.75	MDL	1.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	8.3		0.75	MDL	1.9	PQL	ug/Kg	J	FD
PHENANTHRENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z, FD
PYRENE	8.9		0.75	MDL	1.9	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-005-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.6	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	7.2	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	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	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.76	U	0.76	MDL	1.9	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: PrepDE268_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE268

Method Blank Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261239	11/1/2011 12:39:00 PM	N-NITROSODIMETHYLAMINE	1.33 ng/L	EB-SA7-SB-101311 TB-101311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(REA)	N-NITROSODIMETHYLAMINE	4.50 ng/L	4.50U ng/L
EB-SA7-SB-101311(RES)	N-NITROSODIMETHYLAMINE	4.61 ng/L	4.61U ng/L
TB-101311(RES)	N-NITROSODIMETHYLAMINE	1.23 ng/L	1.23U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29048FB220746	10/21/2011 7:46:00 AM	BORON Zirconium	0.0046 mg/L 0.0093 mg/L	EB-SA7-SB-101311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101311(RES)	BORON	0.0068 mg/L	0.0068U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29008BB220208	10/25/2011 2:08:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	6.41 mg/Kg 1.73 mg/Kg 0.0510 mg/Kg 1.44 mg/Kg	DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5

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
DUP09-SA7-QC-101311(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-005-SA3-SB-4.0-5.0(REA)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-005-SA3-SB-7.5-8.5(REA)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-089-SA7-SB-3.5-4.5(REA)	TIN	2.96 mg/Kg	2.96U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA7-SB-101311(RES)	10/13/2011 2:30:00 PM	BORON STRONTIUM	0.0068 mg/L 0.00051 mg/L	DUP09-SA7-QC-101311 SL-089-SA7-SB-3.5-4.5

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
DUP09-SA7-QC-101311(REA2)	BORON	1.17 mg/Kg	1.17U mg/Kg
SL-089-SA7-SB-3.5-4.5(REA2)	BORON	1.17 mg/Kg	1.17U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268 | Laboratory: LL

EDD Filename: DE268_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-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	EFH (C30-C40)	-	138	49.00-123.00	-	EFH (C30-C40)	J (all detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	EFH (C8-C11)	0	5	49.00-123.00	-	EFH (C8-C11)	J(all detects) R(all non-detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	DIETHYLENE GLYCQL	47	48	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	LEAD VANADIUM ZINC	- - -	146 137 145	75.00-125.00 75.00-125.00 75.00-125.00	- - -	LEAD VANADIUM ZINC	J(all detects) Zn, No Qual, >4x
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ANTIMONY	39	43	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	BARIUM	138	141	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-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	2054 156 398 307	1557 - 211 281	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	IRON MANGANESE	2305 45	15740 74	75.00-125.00 75.00-125.00	45 (20.00) -	IRON MANGANESE	J(all detects) UJ(all non-detects) Fe, Mn, No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_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-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID BIS(2-CHLOROETHOXY)METHA ISOPHORONE PENTACHLOROPHENOL	- - 108 109 -	- - 109 110 -	11.00-126.00 10.00-173.00 75.00-104.00 73.00-102.00 28.00-127.00	49 (30.00) 49 (30.00) - - 31 (30.00)	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID BIS(2-CHLOROETHOXY)METH ISOPHORONE PENTACHLOROPHENOL	J(all detects)
SL-089-SA7-SB-3.5-4.5MS SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	3,5-Dimethylphenol	0	0	71.00-127.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	FLUORIDE	70	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MS (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	POTASSIUM	128	-	75.00-125.00	-	POTASSIUM	J(all detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA7-SB-3.5-4.5MSD (SL-089-SA7-SB-3.5-4.5)	Di-n-butylphthalate	-	159	65.00-148.00	34 (30.00)	Di-n-butylphthalate	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	BORON	25	20.00	No Qual, OK by Difference
	Zirconium	40	20.00	

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	CADMIUM	21	20.00	No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-089-SA7-SB-3.5-4.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-089-SA7-SB-3.5-4.5DUP (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	MERCURY	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12910AQ322054A (EB-SA7-SB-101311)	ETHYLENE GLYCOL Propylene glycol	137 140	- -	78.00-136.00 65.00-132.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSY260627 (EB-SA7-SB-101311)	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	- - -	109 114 112	79.00-107.00 75.00-109.00 53.00-110.00	- - -	2,4,5-TRICHLOROPHENOL NITROBENZENE PENTACHLOROPHENOL	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12915AQ240707A (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	AROCLOR 1016	67	-	72.00-120.00	-	AROCLOR 1016, 1221, 1232	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
P29026AQ220717A (DUP09-SA7-QC-101311 SL-005-SA3-SB-4.0-5.0 SL-005-SA3-SB-7.5-8.5 SL-089-SA7-SB-3.5-4.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE268 **Laboratory: LL**

EDD Filename: DE268_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MOISTURE	11.8	10.8	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
FLUORIDE	2.5	2.3	8	50.00	No Qualifiers Applied
Nitrate-NO3	4.3	4.3	0	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
ALUMINUM	14200	13800	3	50.00	No Qualifiers Applied
BORON	1.17	1.17	0	50.00	
CALCIUM	3860	3810	1	50.00	
IRON	22900	22600	1	50.00	
LITHIUM	31.3	28.7	9	50.00	
MAGNESIUM	6880	6610	4	50.00	
MANGANESE	340	320	6	50.00	
PHOSPHORUS	493	447	10	50.00	
POTASSIUM	2680	2440	9	50.00	
SODIUM	134	116	14	50.00	
STRONTIUM	14.3	13.3	7	50.00	
TIN	2.96	2.56	14	50.00	
TITANIUM	1370	1300	5	50.00	
Zirconium	1.02	0.813	23	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
ARSENIC	4.29	4.70	9	50.00	No Qualifiers Applied
BARIUM	96.4	100	4	50.00	
BERYLLIUM	0.548	0.650	17	50.00	
CADMIUM	0.0810	0.0996	21	50.00	
CHROMIUM	19.6	22.6	14	50.00	
COBALT	6.53	7.69	16	50.00	
COPPER	9.47	10.7	12	50.00	
LEAD	5.14	6.46	23	50.00	
MOLYBDENUM	0.301	0.383	24	50.00	
NICKEL	13.1	14.9	13	50.00	
SELENIUM	0.184	0.191	4	50.00	
SILVER	0.0383	0.0387	1	50.00	
THALLIUM	0.277	0.301	8	50.00	
VANADIUM	38.8	45.1	15	50.00	
ZINC	62.3	68.3	9	50.00	
ANTIMONY	0.153	0.218 U	200	50.00	J(all detects) UJ(all non-detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE268 **Laboratory: LL**

EDD Filename: DE268_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MERCURY	0.0077	0.111 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-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
EFH (C15-C20)	0.59	0.63	7	50.00	No Qualifiers Applied
EFH (C21-C30)	2.5	2.3	8	50.00	
EFH (C30-C40)	6.2	6.4	3	50.00	
EFH (C8-C11)	0.58	1.3 U	200	50.00	J(all detects) UJ(all non-detects)
GASOLINE RANGE ORGANICS (C5-C12)	0.3	1.1 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
AROCLOR 1254	1.9 U	1.5	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	1.9 U	0.90	200	50.00	
Aroclor 5460	3.7 U	14	200	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
BENZO(A)ANTHRACENE	1.9 U	8.7	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	1.9 U	14	200	50.00	
BENZO(B)FLUORANTHENE	1.9 U	18	200	50.00	
BENZO(G,H,I)PERYLENE	1.9 U	9.0	200	50.00	
BENZO(K)FLUORANTHENE	1.9 U	6.6	200	50.00	
CHRYSENE	1.9 U	10	200	50.00	
DIBENZO(A,H)ANTHRACENE	1.9 U	2.2	200	50.00	
FLUORANTHENE	1.9 U	8.7	200	50.00	
INDENO(1,2,3-CD)PYRENE	1.9 U	8.3	200	50.00	
PHENANTHRENE	1.9 U	1.0	200	50.00	
PYRENE	1.9 U	8.9	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
PH	7.86	7.83	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE268 | Laboratory: LL

EDD Filename: DE268_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	BORON	J	0.0068	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00051	0.0050	PQL	mg/L	

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	LEAD	J	0.000089	0.0010	PQL	mg/L	J (all detects)
	ZINC	J	0.0056	0.0150	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	Diethylphthalate	J	0.11	0.98	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.19	0.98	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-005-SA3-SB-7.5-8.5	Nitrate-NO3	J	1.7	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	BORON	J	1.17	5.44	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.9	PQL	mg/Kg	
	Zirconium	J	0.813	5.44	PQL	mg/Kg	
SL-005-SA3-SB-4.0-5.0	TIN	J	2.73	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.56	5.48	PQL	mg/Kg	
SL-005-SA3-SB-7.5-8.5	TIN	J	2.60	11.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.06	5.90	PQL	mg/Kg	
SL-089-SA7-SB-3.5-4.5	BORON	J	1.17	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.9	PQL	mg/Kg	
	Zirconium	J	1.02	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE268 | Laboratory: LL

EDD Filename: DE268_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	CADMIUM	J	0.0996	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.435	PQL	mg/Kg	
	SILVER	J	0.0387	0.109	PQL	mg/Kg	
SL-005-SA3-SB-4.0-5.0	ANTIMONY	J	0.106	0.213	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0489	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0769	0.425	PQL	mg/Kg	
	SILVER	J	0.0647	0.106	PQL	mg/Kg	
SL-005-SA3-SB-7.5-8.5	SILVER	J	0.0206	0.119	PQL	mg/Kg	J (all detects)
SL-089-SA7-SB-3.5-4.5	ANTIMONY	J	0.153	0.225	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0810	0.112	PQL	mg/Kg	
	SELENIUM	J	0.184	0.449	PQL	mg/Kg	
	SILVER	J	0.0383	0.112	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	MERCURY	J	0.0077	0.107	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	EFH (C15-C20)	J	0.63	1.3	PQL	mg/Kg	J (all detects)
SL-089-SA7-SB-3.5-4.5	EFH (C15-C20)	J	0.59	1.4	PQL	mg/Kg	J (all detects)
	EFH (C8-C11)	J	0.58	1.4	PQL	mg/Kg	
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.1	PQL	mg/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	AROCLOR 1254	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.90	1.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE268 Laboratory: LL

EDD Filename: DE268_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	PHENANTHRENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
SL-005-SA3-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.77	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.8	PQL	ug/Kg	
SL-005-SA3-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	21	PQL	ug/Kg	J (all detects)

LDC #: 26979D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-20-12
SDG #: DE268 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AR
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	>RPDout
VI.	Matrix Spike Analysis	N	MS/D (Al, Ba, Ca, Fe, Mg, Mn, P, Ti, Zn, Hx)
VII.	Duplicate Sample Analysis	N	DUP (Ba, Ca, Hx, Zn (<5x RL, no qual)
VIII.	Laboratory Control Samples (LCS)	A	LCS/D: , T
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=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:

1	SL-005-SA3-SB-4.0-5.0	11		21		31	
2	SL-005-SA3-SB-7.5-8.5	12		22		32	
3	SL-089-SA7-SB-3.5-4.5	13		23		33	
4	DUP09-SA7-QC-101311	14		24		34	
5	EB-SA7-SB-101311 W	15		25		35	
6	SL-089-SA7-SB-3.5-4.5MS	16		26		36	
7	SL-089-SA7-SB-3.5-4.5MSD	17		27		37	
8	SL-089-SA7-SB-3.5-4.5DUP	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979D4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES Reason: B

Page: 1 of 1
Reviewer: CR
2nd Reviewer: 1

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS (2xdil), Hg: 167x
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All ~~Sed~~ Soil

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3									
As			0.40	0.4										
Tl			0.11	0.11										
Hg			0.021	0.04	0.0077									

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 #: 26979D4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer: L

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? Reason: F

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

Sampling date: 10/13/11 Soil factor applied 100x; Hg=167x

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All ~~Sediment~~ SO 1

Analyte	Blank ID	Sample Identification											
	5	Action Level	3	4									
B	6.8	3.4	1.2	1.2									
Pb	0.089	0.0445											
Sr	0.51	0.255											
Zn	5.6	2.8											

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.: DE268
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6437195BKG Serial Dilution Lab Sample ID: 6437195L
Batch ID(s): P29008B, P29026A, P29808B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		130045.0200		123577.1500		5		P
Antimony	121	0.6800	B	1.8500	U	100		MS
Arsenic	75	19.1000		19.3450		1		MS
[redacted]	137	429.5000		481.9000		12	E	MS
Beryllium	9	2.4430		2.9145		19		MS
Boron		10.7300	B	18.0000	U	100		P
Cadmium	111	0.3606	B	1.1000	U	100		MS
Calcium		35420.5600		35391.8500		0		P
[redacted]	52	87.3800		108.9500		25	E	MS
[redacted]	59	29.0700		32.4500		12	E	MS
[redacted]	63	42.1700		48.9150		16	E	MS
Iron		210223.8600		208717.8500		1		P
[redacted]	208	22.9100		26.2600		15	E	MS
Lithium		286.9300		283.3000		1		P
Magnesium		63075.1100		62824.7500		0		P
Manganese		3114.4100		3177.0000		2		P
Molybdenum	98	1.3410		1.2500	U	100		MS
[redacted]	60	58.2800		68.2500		17	E	MS
Phosphorus		4524.3300		4231.2500		6		P
Potassium		24335.5900		23453.2500		4		P
Selenium	78	0.8201	B	1.4500	U	100		MS
Silver	107	0.1704	B	0.3550	U	100		MS
Sodium		1217.6100		1197.6000	B	2		P
Strontium		130.8200		131.4500		0		P
Thallium	203	1.2340		1.3500	B	9		MS
Tin		27.1100	B	26.4500	B	2		P
Titanium		12602.0100		13473.2500		7		P
[redacted]	51	172.6000		212.8500		23	E	MS
Zinc	66	277.5000		319.2000		15		MS
Zirconium		9.3300	B	23.0000	U	100		P

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

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

DE268 3682

SAMPLE DELIVERY GROUP

DE269

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-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3050B	6010B	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3050B	6020	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3060A	7199	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8082	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8270C	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	300.0	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438619	N	METHOD	7471A	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3050B	6010B	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3050B	6020	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3060A	7199	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8082	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8270C	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	300.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438618	N	METHOD	7471A	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0DUP	P438618D271513B	DUP	METHOD	314.0	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MSD	P438618M261405	MSD	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MS	P438618R261332	MS	3550B	8270C SIM	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0MS	P438618R271536B	MS	METHOD	314.0	III
14-Oct-2011	TB-101411	6438628	TB	3520C	1625C	III
14-Oct-2011	TB-101411	6438629	TB	3546	1625C	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3050B	6010B	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	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-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3060A	7199	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8082	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8270C	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	3550B	8270C SIM	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	300.0	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	314.0	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438623	N	METHOD	7471A	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3050B	6010B	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3050B	6020	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3060A	7199	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8082	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8270C	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	3550B	8270C SIM	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	300.0	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	314.0	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438622	N	METHOD	7471A	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3050B	6010B	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3050B	6020	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3060A	7199	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8082	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8270C	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	3550B	8270C SIM	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	300.0	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	314.0	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438625	N	METHOD	7471A	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	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
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3050B	6020	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3060A	7199	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8082	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8270C	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	3550B	8270C SIM	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	300.0	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	314.0	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438624	N	METHOD	7471A	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3050B	6010B	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3050B	6020	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3060A	7199	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8082	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8270C	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	3550B	8270C SIM	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	300.0	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	314.0	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438621	N	METHOD	7471A	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3050B	6010B	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3050B	6020	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3060A	7199	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8082	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8270C	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	3550B	8270C SIM	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	300.0	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	N	METHOD	314.0	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438620	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-Oct-2011	EB-SA3-SB-101411	6438627	EB	3520C	1625C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3050B	6010B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3050B	6020	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3060A	7199	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3546	1625C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8015B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8015M	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8082	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8270C	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	3550B	8270C SIM	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	8330	8330A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	300.0	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	314.0	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	7471A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8015B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8015M	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	N	METHOD	8315A	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438626	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: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 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
POTASSIUM	2230		12.0	MDL	53.0	PQL	mg/Kg	J	Q
SODIUM	86.7	J	6.31	MDL	106	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18300		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.71	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.24	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1560		12.4	MDL	55.0	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18700		2.90	MDL	22.2	PQL	mg/Kg	J	E
TIN	2.92	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.23	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	33700		5.81	MDL	44.5	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3350		12.7	MDL	56.2	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.64	J	0.356	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	32600		5.78	MDL	44.3	PQL	mg/Kg	J	E

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3050		12.7	MDL	56.4	PQL	mg/Kg	J	Q

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.81	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
IRON	35200		5.95	MDL	45.6	PQL	mg/Kg	J	E

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3700		12.7	MDL	56.4	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
TIN	2.87	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.87	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	40800		5.99	MDL	45.9	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 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
POTASSIUM	4230		13.0	MDL	57.4	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.17	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.87	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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	3760		12.2	MDL	54.0	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
IRON	27200		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.50	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	4.26	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2800		11.8	MDL	52.4	PQL	mg/Kg	J	Q

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 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
IRON	27100		2.79	MDL	21.4	PQL	mg/Kg	J	E
TIN	2.73	J	0.342	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1980		11.5	MDL	51.1	PQL	mg/Kg	J	Q
SODIUM	73.0	J	6.08	MDL	102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21200		2.61	MDL	20.0	PQL	mg/Kg	J	E
TIN	2.45	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.552	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

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

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 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	0.131	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 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	74.4		0.112	MDL	0.424	PQL	mg/Kg	J	A

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 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	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q
CADMIUM	0.0492	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	12.6		0.127	MDL	0.424	PQL	mg/Kg	J	A
COBALT	5.35		0.0212	MDL	0.106	PQL	mg/Kg	J	A
COPPER	4.36		0.0848	MDL	0.424	PQL	mg/Kg	J	A
LEAD	5.91		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, A
NICKEL	7.96		0.106	MDL	0.424	PQL	mg/Kg	J	A
SILVER	0.0498	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, A

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0650	MDL	0.449	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.3		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.161	J	0.0830	MDL	0.224	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	5.76		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	6.28		0.0897	MDL	0.449	PQL	mg/Kg	J	A
LEAD	7.77		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	7.43		0.112	MDL	0.449	PQL	mg/Kg	J	A
SILVER	0.0453	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	38.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.276		0.0831	MDL	0.225	PQL	mg/Kg	J	Q
CADMIUM	0.0551	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	28.3		0.135	MDL	0.449	PQL	mg/Kg	J	A
COBALT	13.0		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	32.6		0.0898	MDL	0.449	PQL	mg/Kg	J	A
LEAD	17.3		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	20.8		0.112	MDL	0.449	PQL	mg/Kg	J	A
VANADIUM	74.7		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.175	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.120	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.201	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CHROMIUM	36.9		0.135	MDL	0.451	PQL	mg/Kg	J	A
COBALT	13.4		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	16.7		0.0903	MDL	0.451	PQL	mg/Kg	J	A
LEAD	10.6		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	20.5		0.113	MDL	0.451	PQL	mg/Kg	J	A
SILVER	0.0257	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	77.1		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 9:47:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
BARIUM	179		0.120	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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	0.308		0.0835	MDL	0.226	PQL	mg/Kg	J	Q
CHROMIUM	38.9		0.135	MDL	0.451	PQL	mg/Kg	J	A
COBALT	12.8		0.0226	MDL	0.113	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
COPPER	17.2		0.0903	MDL	0.451	PQL	mg/Kg	J	A
LEAD	11.3		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	23.4		0.113	MDL	0.451	PQL	mg/Kg	J	A
SILVER	0.0479	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	77.7		0.0248	MDL	0.113	PQL	mg/Kg	J	Q, A

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0672	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	199		0.123	MDL	0.464	PQL	mg/Kg	J	A

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.378		0.0858	MDL	0.232	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0510	MDL	0.116	PQL	mg/Kg	J	Z
CHROMIUM	47.6		0.139	MDL	0.464	PQL	mg/Kg	J	A
COBALT	17.6		0.0232	MDL	0.116	PQL	mg/Kg	J	A
COPPER	25.8		0.0927	MDL	0.464	PQL	mg/Kg	J	A
LEAD	13.9		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	30.5		0.116	MDL	0.464	PQL	mg/Kg	J	A
SILVER	0.0232	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
VANADIUM	96.5		0.0255	MDL	0.116	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.199	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	116		0.116	MDL	0.437	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
CHROMIUM	33.6		0.131	MDL	0.437	PQL	mg/Kg	J	A
COBALT	10.6		0.0218	MDL	0.109	PQL	mg/Kg	J	A
COPPER	13.1		0.0873	MDL	0.437	PQL	mg/Kg	J	A
LEAD	8.01		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, A
NICKEL	17.9		0.109	MDL	0.437	PQL	mg/Kg	J	A
SILVER	0.0220	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	65.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, A

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.111	MDL	0.419	PQL	mg/Kg	J	A

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 10:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.221		0.0775	MDL	0.209	PQL	mg/Kg	J	Q
CHROMIUM	40.4		0.126	MDL	0.419	PQL	mg/Kg	J	A
COBALT	10.0		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	10.6		0.0838	MDL	0.419	PQL	mg/Kg	J	A
LEAD	8.06		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, A
NICKEL	18.8		0.105	MDL	0.419	PQL	mg/Kg	J	A
SILVER	0.0413	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	72.6		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 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
SELENIUM	0.201	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 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
BARIUM	88.2		0.106	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 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
ANTIMONY	0.117	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0866	J	0.0441	MDL	0.100	PQL	mg/Kg	J	Z
CHROMIUM	22.4		0.120	MDL	0.401	PQL	mg/Kg	J	A
COBALT	6.94		0.0200	MDL	0.100	PQL	mg/Kg	J	A
COPPER	10.1		0.0801	MDL	0.401	PQL	mg/Kg	J	A
LEAD	5.70		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	16.0		0.100	MDL	0.401	PQL	mg/Kg	J	A
SILVER	0.0314	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z
VANADIUM	41.3		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 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	0.23	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0079	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0070	MDL	0.0992	PQL	mg/Kg	U	B

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA3-SB-101411 *Collected:* 10/14/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.20		0.492	MDL	0.984	PQL	ng/L	U	B, T

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 1625C **Matrix:** AQ

Sample ID: TB-101411 *Collected:* 10/14/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.99		0.533	MDL	1.07	PQL	ng/L	U	B

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

Sample ID: SL-006-SA3-SB-4.0-5.0 *Collected:* 10/13/2011 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 1016	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-006-SA3-SB-9.0-10.0 *Collected:* 10/13/2011 2:47:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	L

Sample ID: SL-036-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 11:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	L, S
AROCLOR 1221	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S, L
AROCLOR 1232	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S, L
AROCLOR 1242	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.45	U	0.45	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 1262	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 1268	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	S
Aroclor 5432	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S
Aroclor 5442	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 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 1254	0.80	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

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

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

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

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *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	9.3	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 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	9.0	J	6.5	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 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)PYRENE	0.77	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.97	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	S
Isopropanol	100	U	100	MDL	510	PQL	ug/Kg	UJ	S
METHANOL	100	U	100	MDL	510	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: PrepDE269_v1 eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Upper Estimation
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
T	Trip Blank Contamination
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE269

Method Blank Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA29B261239	11/1/2011 12:39:00 PM	N-NITROSODIMETHYLAMINE	1.33 ng/L	EB-SA3-SB-101411 TB-101411

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA3-SB-101411(RES)	N-NITROSODIMETHYLAMINE	1.20 ng/L	1.20U ng/L
TB-101411(RES)	N-NITROSODIMETHYLAMINE	3.99 ng/L	3.99U ng/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P29008BB220208	10/25/2011 2:08:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	6.41 mg/Kg 1.73 mg/Kg 0.0510 mg/Kg 1.44 mg/Kg	SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5

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-006-SA3-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-006-SA3-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	TIN	3.17 mg/Kg	3.17U mg/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-164-SA7-SB-0.5-1.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg

Trip Blank Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

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

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101411(RES)	10/14/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	3.99 ng/L	EB-SA3-SB-101411 SL-006-SA3-SB-4.0-5.0 SL-006-SA3-SB-9.0-10.0 SL-036-SA5DS-SB-4.0-5.0 SL-036-SA5DS-SB-9.0-10.0 SL-037-SA5DS-SB-4.0-5.0 SL-037-SA5DS-SB-9.0-10.0 SL-038-SA5DS-SB-4.0-5.0 SL-038-SA5DS-SB-9.0-10.0 SL-164-SA7-SB-0.5-1.5

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
EB-SA3-SB-101411(RES)	N-NITROSODIMETHYLAMINE	1.20 ng/L	1.20U ng/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_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-006-SA3-SB-4.0-5.0MSD (SL-006-SA3-SB-4.0-5.0)	BENZO(G,H,I)PERYLENE	-	-	33.00-141.00	53 (30.00)	BENZO(G,H,I)PERYLENE	J (all detects)
	DIBENZO(A,H)ANTHRACENE	-	-	22.00-133.00	41 (30.00)	DIBENZO(A,H)ANTHRACENE	
	INDENO(1,2,3-CD)PYRENE	-	-	21.00-143.00	47 (30.00)	INDENO(1,2,3-CD)PYRENE	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_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
P12915AQ240707A (SL-006-SA3-SB-4.0-5.0 SL -006-SA3-SB-9.0-10.0 SL -036-SA5DS -SB-9.0-10.0)	AROCLOR 1016	67	-	72.00-120.00	-	AROCLOR 1016, 1221, 1232	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
P29026AQ220717A (SL-006-SA3-SB-4.0-5.0 SL -006-SA3-SB-9.0-10.0 SL -036-SA5DS -SB-4.0-5.0 SL -036-SA5DS -SB-9.0-10.0 SL -037-SA5DS -SB-4.0-5.0 SL -037-SA5DS -SB-9.0-10.0 SL -038-SA5DS -SB-4.0-5.0 SL -038-SA5DS -SB-9.0-10.0 SL -164-SA7-SB-0.5-1.5)	ANTIMONY	134	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE269 **Laboratory: LL**

EDD Filename: DE269_v1 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-164-SA7-SB-0.5 -1.5	n-Triacontane-d62	198	19.00-152.00	All Target Analytes	J(all detects)
SL-164-SA7-SB-0.5 -1.5	ACETONE	40	42.00-138.00	All Target Analytes	J(all detects) UJ(all non-detects)

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-036-SA5DS-SB-9.0-10.0	TETRACHLORO-M-XYLENE	52	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE269 | Laboratory: LL

EDD Filename: DE269_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	SODIUM	J	86.7	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.7	PQL	mg/Kg	
	Zirconium	J	1.24	5.35	PQL	mg/Kg	
SL-006-SA3-SB-9.0-10.0	TIN	J	2.92	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.23	5.55	PQL	mg/Kg	
SL-036-SA5DS-SB-4.0-5.0	TIN	J	2.64	11.1	PQL	mg/Kg	J (all detects)
SL-036-SA5DS-SB-9.0-10.0	TIN	J	2.81	11.1	PQL	mg/Kg	J (all detects)
SL-037-SA5DS-SB-4.0-5.0	TIN	J	2.87	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.70	PQL	mg/Kg	
SL-037-SA5DS-SB-9.0-10.0	TIN	J	3.17	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.87	5.74	PQL	mg/Kg	
SL-038-SA5DS-SB-4.0-5.0	TIN	J	2.50	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.26	5.35	PQL	mg/Kg	
SL-038-SA5DS-SB-9.0-10.0	TIN	J	2.73	10.7	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	SODIUM	J	73.0	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	10.0	PQL	mg/Kg	
	Zirconium	J	0.552	5.01	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	CADMIUM	J	0.0492	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.424	PQL	mg/Kg	
	SILVER	J	0.0498	0.106	PQL	mg/Kg	
SL-006-SA3-SB-9.0-10.0	ANTIMONY	J	0.161	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.449	PQL	mg/Kg	
	SILVER	J	0.0453	0.112	PQL	mg/Kg	
SL-036-SA5DS-SB-4.0-5.0	CADMIUM	J	0.0551	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.449	PQL	mg/Kg	
SL-036-SA5DS-SB-9.0-10.0	ANTIMONY	J	0.201	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.175	0.451	PQL	mg/Kg	
	SILVER	J	0.0257	0.113	PQL	mg/Kg	
SL-037-SA5DS-SB-4.0-5.0	SELENIUM	J	0.142	0.451	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0479	0.113	PQL	mg/Kg	
SL-037-SA5DS-SB-9.0-10.0	CADMIUM	J	0.0708	0.116	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.464	PQL	mg/Kg	
	SILVER	J	0.0232	0.116	PQL	mg/Kg	
SL-038-SA5DS-SB-4.0-5.0	ANTIMONY	J	0.188	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.199	0.437	PQL	mg/Kg	
	SILVER	J	0.0220	0.109	PQL	mg/Kg	
SL-038-SA5DS-SB-9.0-10.0	SELENIUM	J	0.122	0.419	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0413	0.105	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE269 | Laboratory: LL

EDD Filename: DE269_v1 | eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA7-SB-0.5-1.5	ANTIMONY	J	0.117	0.200	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0866	0.100	PQL	mg/Kg	
	SELENIUM	J	0.201	0.401	PQL	mg/Kg	
	SILVER	J	0.0314	0.100	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-037-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-038-SA5DS-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	HEXAVALENT CHROMIUM	J	0.27	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	MERCURY	J	0.0194	0.112	PQL	mg/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	MERCURY	J	0.0107	0.0992	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA7-SB-0.5-1.5	AROCLOR 1254	J	0.80	1.7	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	390	PQL	ug/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	PHENOL	J	17	170	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE269 Laboratory: LL

EDD Filename: DE269_v1 eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.3	20	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.1	19	PQL	ug/Kg	J (all detects)
SL-038-SA5DS-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	19	PQL	ug/Kg	J (all detects)
SL-164-SA7-SB-0.5-1.5	BENZO(A)PYRENE	J	0.77	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.97	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	

LDC #: 26979E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-2012
SDG #: DE269 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AL
2nd Reviewer: L

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (from SDG: DE268)
VII.	Duplicate Sample Analysis	N	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	from DE268
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-006-SA3-SB-4.0-5.0	11		21		31	
2	SL-006-SA3-SB-9.0-10.0	12		22		32	
3	SL-036-SA5DS-SB-4.0-5.0	13		23		33	
4	SL-036-SA5DS-SB-9.0-10.0	14		24		34	
5	SL-037-SA5DS-SB-4.0-5.0	15		25		35	
6	SL-037-SA5DS-SB-9.0-10.0	16		26		36	
7	SL-038-SA5DS-SB-4.0-5.0	17		27		37	
8	SL-038-SA5DS-SB-9.0-10.0	18		28		38	
9	SL-164-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26979E4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reason: B

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

Soil preparation factor applied: 100x x MS (2xdil), Hg; 167x
Associated Samples: All

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	9								
Tl			0.11	0.11										
Hg			0.021	0.04	0.019	0.011								

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

DE281

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-Nov-2011	TB-110711	6462622	TB	3546	1625C	III
07-Nov-2011	TB-110711	6462623	TB	5030B	8015M	III
07-Nov-2011	TB-110711	6462624	TB	3520C	1625C	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	3050B	6010B	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	3050B	6020	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	3060A	7199	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	3550B	8082	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	3550B	8270C	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	3550B	8270C SIM	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	METHOD	300.0	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	METHOD	314.0	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462616	N	METHOD	7471A	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0DUP	P462616D220801	DUP	3050B	6010B	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0DUP	P462616D271504A	DUP	METHOD	300.0	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0MSD	P462616M220725	MSD	3050B	6010B	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0MSD	P462616M260224	MSD	3550B	8270C SIM	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0MS	P462616R220721	MS	3050B	6010B	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0MS	P462616R260149	MS	3550B	8270C SIM	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0MS	P462616R271534A	MS	METHOD	300.0	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3050B	6010B	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3050B	6020	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3060A	7199	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3546	1625C	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3550B	8015B	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3550B	8015M	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3550B	8270C	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	3550B	8270C SIM	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	5035	8015M	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	8330	8330A	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	300.0	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	314.0	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	7471A	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	8015B	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	8015M	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	8315A	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462620	N	METHOD	9012B	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0DUP	P462620D221737	DUP	METHOD	7471A	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0MSD	P462620M221740	MSD	METHOD	7471A	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0MS	P462620R221738	MS	METHOD	7471A	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3050B	6010B	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3050B	6020	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3060A	7199	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3546	1625C	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3550B	8015B	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3550B	8015M	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3550B	8082	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3550B	8270C	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	3550B	8270C SIM	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	8330	8330A	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	METHOD	300.0	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	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
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	METHOD	7471A	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	METHOD	8015B	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	METHOD	8015M	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	METHOD	8315A	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462619	N	METHOD	9012B	III
07-Nov-2011	EB-SA3-SB-110711	6462621	EB	3520C	1625C	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3050B	6010B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3060A	7199	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3546	1625C	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3550B	8015B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3550B	8015M	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3550B	8082	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3550B	8270C	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	3550B	8270C SIM	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	5035	8015M	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	8330	8330A	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	300.0	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	314.0	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	7471A	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	8015B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	8015M	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	8315A	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462617	N	METHOD	9012B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0DUP	P462617D270841A	DUP	METHOD	9012B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MSD	P462617M240207A	MSD	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
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MSD	P462617M241506A	MSD	METHOD	8315A	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MSD	P462617M320227A	MSD	METHOD	8015B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MSD	P462617M321934A	MSD	3550B	8015M	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MS	P462617R240125A	MS	8330	8330A	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MS	P462617R241457A	MS	METHOD	8315A	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MS	P462617R270842A	MS	METHOD	9012B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MS	P462617R320211A	MS	METHOD	8015B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0MS	P462617R321911A	MS	3550B	8015M	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3050B	6010B	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3060A	7199	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3546	1625C	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3550B	8015B	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3550B	8015M	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3550B	8082	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3550B	8270C	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	3550B	8270C SIM	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	5035	8015M	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	8330	8330A	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	METHOD	300.0	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	METHOD	314.0	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	METHOD	7471A	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	METHOD	8015B	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	METHOD	8015M	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	N	METHOD	8315A	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462618	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
07-Nov-2011	SL-004-SA3-SB-7.0-8.0DUP	P462618D221500A	DUP	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0DUP	P462618D221500C	DUP	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0DUP	P462618D221500D	DUP	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0DUP	P462618D222020B	DUP	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MSD	P462618M221506A	MSD	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MSD	P462618M221506C	MSD	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MSD	P462618M221506D	MSD	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MSD	P462618M222025B	MSD	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MS	P462618R221503A	MS	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MS	P462618R221503C	MS	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MS	P462618R221503D	MS	3050B	6020	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0MS	P462618R222023B	MS	3050B	6020	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.4	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

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

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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
BORON	3.49	J	0.357	MDL	4.96	PQL	mg/Kg	J	Z
CALCIUM	1080		2.48	MDL	19.8	PQL	mg/Kg	J	Q
POTASSIUM	3180		11.2	MDL	49.6	PQL	mg/Kg	J	Q
SODIUM	89.4	J	5.90	MDL	99.2	PQL	mg/Kg	J	Z
TIN	2.66	J	0.318	MDL	9.92	PQL	mg/Kg	U	B
Zirconium	2.19	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1260		2.48	MDL	19.8	PQL	mg/Kg	J	Q
POTASSIUM	2930		11.2	MDL	49.6	PQL	mg/Kg	J	Q
SODIUM	88.4	J	5.90	MDL	99.1	PQL	mg/Kg	J	Z
TIN	2.58	J	0.317	MDL	9.91	PQL	mg/Kg	U	B
Zirconium	2.41	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	0.380	MDL	5.28	PQL	mg/Kg	J	Z
CALCIUM	1500		2.64	MDL	21.1	PQL	mg/Kg	J	Q
POTASSIUM	2130		11.9	MDL	52.8	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.00	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.486	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 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
BORON	3.35	J	0.377	MDL	5.24	PQL	mg/Kg	J	Z
CALCIUM	2680		2.62	MDL	21.0	PQL	mg/Kg	J	Q
POTASSIUM	3350		11.8	MDL	52.4	PQL	mg/Kg	J	Q
TIN	2.79	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.91	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3720		2.52	MDL	20.2	PQL	mg/Kg	J	Q
POTASSIUM	3730		11.4	MDL	50.4	PQL	mg/Kg	J	Q
SODIUM	81.0	J	6.00	MDL	101	PQL	mg/Kg	J	Z
TIN	2.71	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.93	J	0.464	MDL	5.04	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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	57.6		0.108	MDL	0.409	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 9:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0756	U	0.0756	MDL	0.204	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.556		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0724	J	0.0450	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	10.2		0.123	MDL	0.409	PQL	mg/Kg	J	A
COBALT	4.22		0.0204	MDL	0.102	PQL	mg/Kg	J	E, A
LEAD	5.66		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	7.04		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0250	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
VANADIUM	22.7		0.0225	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.1		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0755	U	0.0755	MDL	0.204	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.804		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.0713	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.7		0.122	MDL	0.408	PQL	mg/Kg	J	A
COBALT	5.23		0.0204	MDL	0.102	PQL	mg/Kg	J	E, A
LEAD	6.51		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	9.41		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0301	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
VANADIUM	30.9		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	55.2		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q
BERYLLIUM	0.518		0.0167	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	17.3		0.125	MDL	0.418	PQL	mg/Kg	J	A
COBALT	5.27		0.0209	MDL	0.105	PQL	mg/Kg	J	E, A
LEAD	5.53		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, A
NICKEL	8.49		0.105	MDL	0.418	PQL	mg/Kg	J	Q
SILVER	0.0210	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z, Q
VANADIUM	35.5		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 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
BARIUM	113		0.108	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.596		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.501		0.0448	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA3-SB-3.0-4.0 **Collected:** 11/7/2011 11:15:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	26.9		0.122	MDL	0.407	PQL	mg/Kg	J	A
COBALT	7.54		0.0204	MDL	0.102	PQL	mg/Kg	J	E, A
LEAD	10.9		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	18.2		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.230		0.0145	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	45.8		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA3-SB-0.5-1.5 **Collected:** 11/7/2011 1:35:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA3-SB-0.5-1.5 **Collected:** 11/7/2011 1:35:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.108	MDL	0.407	PQL	mg/Kg	J	A

Sample ID: SL-013-SA3-SB-0.5-1.5 **Collected:** 11/7/2011 1:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.131	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.656		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.276		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	27.4		0.122	MDL	0.407	PQL	mg/Kg	J	A
COBALT	8.62		0.0204	MDL	0.102	PQL	mg/Kg	J	E, A
LEAD	14.1		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	17.4		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.695		0.0145	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	49.2		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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	0.67	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 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	0.31	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 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	0.0143	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0110	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.91	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.58	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	15	J	3.5	MDL	18	PQL	ug/Kg	J	Z
Aroclor 5460	31	J	10	MDL	35	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 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
AROCLOR 1260	2.6	J	2.0	MDL	8.8	PQL	ug/Kg	J	Z

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

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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
Di-n-octylphthalate	21	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 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
Diethylphthalate	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	45	J	17	MDL	350	PQL	ug/Kg	J	Z

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

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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(K)FLUORANTHENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.97	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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
FLUORANTHENE	0.96	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.81	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	7.4	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.4	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 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(B)FLUORANTHENE	0.96	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.74	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.3	J	6.3	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.8	J	6.3	MDL	19	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.73	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 1:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.84	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.96	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.2	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	1.2	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	42	U	42	MDL	120	PQL	ug/Kg	UJ	Q
2,4,6-TRINITROTOLUENE	42	U	42	MDL	120	PQL	ug/Kg	UJ	Q
2,4-DINITROTOLUENE	42	U	42	MDL	120	PQL	ug/Kg	UJ	Q
2,6-DINITROTOLUENE	42	U	42	MDL	120	PQL	ug/Kg	UJ	Q
2-AMINO-4,6-DINITROTOLUENE	42	U	42	MDL	120	PQL	ug/Kg	UJ	Q
2-NITROTOLUENE	83	U	83	MDL	120	PQL	ug/Kg	UJ	Q
4-AMINO-2,6-DINITROTOLUENE	62	U	62	MDL	120	PQL	ug/Kg	UJ	Q
4-NITROTOLUENE	83	U	83	MDL	120	PQL	ug/Kg	UJ	Q
Nitroglycerin	830	U	830	MDL	2500	PQL	ug/Kg	UJ	Q
PETN	830	U	830	MDL	2500	PQL	ug/Kg	UJ	Q
RDX	52	U	52	MDL	120	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE281 **Laboratory: LL**

EDD Filename: DE281_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
*#	Professional Judgment
A	ICP Serial Dilution
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
L	Laboratory Control Spike Lower Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE281

Method Blank Outlier Report

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P31208CB220654	11/10/2011 6:54:00 AM	CALCIUM	4.28 mg/Kg	SL-001-SA3-SB-2.0-3.0
		IRON	2.99 mg/Kg	SL-004-SA3-SB-4.0-5.0
		MAGNESIUM	0.884 mg/Kg	SL-004-SA3-SB-7.0-8.0
		PHOSPHORUS	1.18 mg/Kg	SL-010-SA3-SB-3.0-4.0
		TIN	1.51 mg/Kg	SL-013-SA3-SB-0.5-1.5

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-001-SA3-SB-2.0-3.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-004-SA3-SB-4.0-5.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-004-SA3-SB-7.0-8.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-010-SA3-SB-3.0-4.0(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-013-SA3-SB-0.5-1.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P31226CB221448A	11/16/2011 2:48:00 PM	LEAD	0.0307 mg/Kg	SL-001-SA3-SB-2.0-3.0 SL-004-SA3-SB-4.0-5.0 SL-004-SA3-SB-7.0-8.0 SL-010-SA3-SB-3.0-4.0 SL-013-SA3-SB-0.5-1.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_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-004-SA3-SB-4.0-5.0MSD (SL-004-SA3-SB-4.0-5.0)	ETHANOL	-	-	48.00-130.00	68 (20.00)	ETHANOL	J (all detects)
	Isopropanol	-	-	12.00-149.00	78 (20.00)	Isopropanol	
	METHANOL	-	-	43.00-138.00	70 (20.00)	METHANOL	

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-004-SA3-SB-4.0-5.0MS (SL-004-SA3-SB-4.0-5.0)	1,3,5-TRINITROBENZENE	74	-	82.00-126.00	-	1,3,5-TRINITROBENZENE	J(all detects) UJ(all non-detects)
	2,4,6-TRINITROTOLUENE	79	-	82.00-130.00	-	2,4,6-TRINITROTOLUENE	
	2,4-DINITROTOLUENE	76	-	80.00-131.00	-	2,4-DINITROTOLUENE	
	2,6-DINITROTOLUENE	78	-	80.00-127.00	-	2,6-DINITROTOLUENE	
	2-AMINO-4,6-DINITROTOLUENE	76	-	80.00-137.00	-	2-AMINO-4,6-DINITROTOLUEN	
	2-NITROTOLUENE	79	-	80.00-122.00	-	2-NITROTOLUENE	
	4-AMINO-2,6-DINITROTOLUENE	79	-	80.00-127.00	-	4-AMINO-2,6-DINITROTOLUEN	
	4-NITROTOLUENE	78	-	80.00-125.00	-	4-NITROTOLUENE	
	Nitroglycerin	73	-	80.00-120.00	-	Nitroglycerin	
	PETN	75	-	80.00-121.00	-	PETN	
	RDX	70	-	75.00-129.00	-	RDX	

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-004-SA3-SB-7.0-8.0MS	BERYLLIUM	-	142	75.00-125.00	-	BERYLLIUM	J(all detects) Zn, No Qual, >4x
SL-004-SA3-SB-7.0-8.0MSD	CADMIUM	133	-	75.00-125.00	-	CADMIUM	
(SL-001-SA3-SB-2.0-3.0	LEAD	141	128	75.00-125.00	-	LEAD	
SL -004-SA3-SB-4.0-5.0	NICKEL	132	-	75.00-125.00	-	NICKEL	
SL -004-SA3-SB-7.0-8.0	SILVER	133	-	75.00-125.00	-	SILVER	
SL -010-SA3-SB-3.0-4.0	VANADIUM	127	131	75.00-125.00	-	VANADIUM	
SL -013-SA3-SB-0.5-1.5)	ZINC	171	-	75.00-125.00	-	ZINC	
SL-004-SA3-SB-7.0-8.0MS SL-004-SA3-SB-7.0-8.0MSD (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	ANTIMONY	49	46	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-004-SA3-SB-7.0-8.0MS SL-004-SA3-SB-7.0-8.0MSD (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	BARIUM	171	158	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_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-001-SA3-SB-2.0-3.0MS SL-001-SA3-SB-2.0-3.0MSD (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	2025 173 430 133 168	1242 - - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Mg, Ti, No Qual, >4x
SL-001-SA3-SB-2.0-3.0MS SL-001-SA3-SB-2.0-3.0MSD (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	IRON	2906	-415	75.00-125.00	-	IRON	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_v1 eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-004-SA3-SB-7.0-8.0DUP (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	BERYLLIUM COBALT	32 24	20.00 20.00	J (all detects) UJ (all non-detects) Be, No Qual, OK by Difference

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-001-SA3-SB-2.0-3.0DUP (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	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-001-SA3-SB-2.0-3.0DUP (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	Zirconium	30	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE281 Laboratory: LL

EDD Filename: DE281_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
P31226CQ221451A (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	ANTIMONY	72	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 7471A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P31211CQ221730 (SL-001-SA3-SB-2.0-3.0 SL -004-SA3-SB-4.0-5.0 SL -004-SA3-SB-7.0-8.0 SL -010-SA3-SB-3.0-4.0 SL -013-SA3-SB-0.5-1.5)	MERCURY	84	-	85.00-120.00	-	MERCURY	No Qual, SRM within Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE281 | Laboratory: LL

EDD Filename: DE281_v1 | eQAPP Name: CDM_SSFL_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA3-SB-4.0-5.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-004-SA3-SB-7.0-8.0	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	BORON	J	3.49	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.4	99.2	PQL	mg/Kg	
	TIN	J	2.66	9.92	PQL	mg/Kg	
	Zirconium	J	2.19	4.96	PQL	mg/Kg	
SL-004-SA3-SB-4.0-5.0	SODIUM	J	88.4	99.1	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	9.91	PQL	mg/Kg	
	Zirconium	J	2.41	4.96	PQL	mg/Kg	
SL-004-SA3-SB-7.0-8.0	BORON	J	4.36	5.28	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	10.6	PQL	mg/Kg	
	Zirconium	J	2.33	5.28	PQL	mg/Kg	
SL-010-SA3-SB-3.0-4.0	BORON	J	3.35	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.79	10.5	PQL	mg/Kg	
	Zirconium	J	2.91	5.24	PQL	mg/Kg	
SL-013-SA3-SB-0.5-1.5	SODIUM	J	81.0	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.1	PQL	mg/Kg	
	Zirconium	J	3.93	5.04	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	CADMIUM	J	0.0724	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.409	PQL	mg/Kg	
	SILVER	J	0.0250	0.102	PQL	mg/Kg	
SL-004-SA3-SB-4.0-5.0	CADMIUM	J	0.0713	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.141	0.408	PQL	mg/Kg	
	SILVER	J	0.0301	0.102	PQL	mg/Kg	
SL-004-SA3-SB-7.0-8.0	SELENIUM	J	0.141	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0210	0.105	PQL	mg/Kg	
SL-010-SA3-SB-3.0-4.0	ANTIMONY	J	0.149	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.172	0.407	PQL	mg/Kg	
SL-013-SA3-SB-0.5-1.5	ANTIMONY	J	0.131	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.150	0.407	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE281 **Laboratory:** LL

EDD Filename: DE281_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.67	1.0	PQL	mg/Kg	J (all detects)
SL-010-SA3-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.31	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA3-SB-3.0-4.0	MERCURY	J	0.0143	0.105	PQL	mg/Kg	J (all detects)
SL-013-SA3-SB-0.5-1.5	MERCURY	J	0.0110	0.100	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA3-SB-4.0-5.0	EFH (C30-C40)	J	0.91	1.2	PQL	mg/Kg	J (all detects)
SL-004-SA3-SB-7.0-8.0	EFH (C30-C40)	J	0.58	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA3-SB-3.0-4.0	AROCLOR 1254 Aroclor 5460	J J	15 31	18 35	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-013-SA3-SB-0.5-1.5	AROCLOR 1260	J	2.6	8.8	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	Di-n-octylphthalate	J	21	170	PQL	ug/Kg	J (all detects)
SL-010-SA3-SB-3.0-4.0	Diethylphthalate	J	20	170	PQL	ug/Kg	J (all detects)
SL-013-SA3-SB-0.5-1.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	350	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE281 **Laboratory: LL**

EDD Filename: DE281_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	BENZO(K)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	CHRYSENE	J	0.97	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	7.4	19	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	0.96	1.7	PQL	ug/Kg	
	PYRENE	J	0.81	1.7	PQL	ug/Kg	
SL-004-SA3-SB-4.0-5.0	Di-n-butylphthalate	J	7.4	19	PQL	ug/Kg	J (all detects)
SL-004-SA3-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	19	PQL	ug/Kg	J (all detects)
SL-010-SA3-SB-3.0-4.0	BENZO(B)FLUORANTHENE	J	0.96	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.74	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.3	19	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.8	19	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.7	PQL	ug/Kg	
	PYRENE	J	0.73	1.7	PQL	ug/Kg	
SL-013-SA3-SB-0.5-1.5	BENZO(A)ANTHRACENE	J	0.84	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.96	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.75	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.2	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.78	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.7	PQL	ug/Kg	

LDC #: 27039D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1-31-12

SDG #: DE281 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	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MS/D (Al, Fe, Mg, Ti, Ba, Zn >4X)
VII.	Duplicate Sample Analysis	N	Dup (Zr, Be <5xRL: noeval)
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples: Soil

1	SL-001-SA3-SB-2.0-3.0	11	(X3) DUP	21		31	
2	SL-004-SA3-SB-4.0-5.0	12		22		32	
3	SL-004-SA3-SB-7.0-8.0	13		23		33	
4	SL-013-SA3-SB-0.5-1.5	14		24		34	
5	SL-010-SA3-SB-3.0-4.0	15		25		35	
6	(X1) MS (6010)	16		26		36	
7	↓ MSD	17		27		37	
8	↓ DUP	18		28		38	
9	(X3) MS (6020)	19		29		39	
10	↓ MSD	20		30		40	

Notes: _____

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QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE281
Matrix: SOIL Level (low/med): LOW

J/UJ/A

Background Lab Sample ID: 6462618BKG Serial Dilution Lab Sample ID: 6462618L
Batch ID(s): P31226C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.3700	U	1.8500	U			MS
Arsenic	75	28.6000		33.0700		16		MS
Barium	137	263.9000		294.8500		12	E	MS
Beryllium	9	2.4800		2.5690		4		MS
Cadmium	111	0.2200	U	1.1000	U			MS
Chromium	52	82.6300		92.5000		12	E	MS
Cobalt	59	25.1900		51.5500		105	E	MS
Copper	63	30.9000		39.7100		29		MS
Lead	208	26.4600		29.9250		13	E	MS
Molybdenum	98	1.6740		7.1100		325		MS
Nickel	60	40.6000		51.3000		26		MS
Selenium	78	0.6736	B	1.4500	U	100		MS
Silver	107	0.1006	B	4.4810		4354		MS
Thallium	203	1.9560		2.1220	B	8		MS
Vanadium	51	169.6000		186.1000		10		MS
Zinc	66	266.6000		325.3000		22		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

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SAMPLE DELIVERY GROUP

DX148

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430044	N	METHOD	1613B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430041	N	METHOD	1613B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430042	MS	METHOD	1613B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430043	MSD	METHOD	1613B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430045	FD	METHOD	1613B	III
05-Oct-2011	EB-SA6-SB-100511	6430046	EB	METHOD	1613B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431155	N	METHOD	1613B	III
06-Oct-2011	EB-SA6-SB-100611	6431156	EB	METHOD	1613B	III
07-Oct-2011	SL-138-SA7-SB-1.5-2.5	6432187	N	METHOD	1613B	III
07-Oct-2011	SL-046-SA7-SB-2.5-3.5	6432185	N	METHOD	1613B	III
07-Oct-2011	SL-137-SA7-SB-0.0-1.0	6432186	N	METHOD	1613B	III
10-Oct-2011	SL-169-SA7-SB-3.0-4.0	6433435	N	METHOD	1613B	III
10-Oct-2011	SL-112-SA7-SB-0.0-1.0	6433433	N	METHOD	1613B	III
10-Oct-2011	SL-159-SA7-SB-3.0-4.0	6433434	N	METHOD	1613B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434481	N	METHOD	1613B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434488	N	METHOD	1613B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434487	N	METHOD	1613B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434486	N	METHOD	1613B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434482	N	METHOD	1613B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434483	N	METHOD	1613B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434484	N	METHOD	1613B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434485	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: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB-SA6-SB-100511 *Collected:* 10/5/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.28	JBQ	0.227	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.43	JBQ	0.103	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.138	JBQ	0.119	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.367	JB	0.108	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.198	J	0.177	MDL	10.6	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.256	JB	0.105	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.190	J	0.180	MDL	10.6	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDF	0.139	JQ	0.0966	MDL	10.6	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.260	JQ	0.241	MDL	10.6	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.248	JBQ	0.0988	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.594	JB	0.105	MDL	10.6	PQL	pg/L	U	B
OCDD	3.86	JB	0.255	MDL	21.3	PQL	pg/L	U	B
OCDF	0.743	JBQ	0.267	MDL	21.3	PQL	pg/L	U	B

Sample ID: EB-SA6-SB-100611 *Collected:* 10/6/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.42	JB	0.249	MDL	9.55	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.19	JB	0.118	MDL	9.55	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.295	JB	0.139	MDL	9.55	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.274	JB	0.125	MDL	9.55	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.354	J	0.201	MDL	9.55	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.279	JBQ	0.125	MDL	9.55	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.157	JB	0.122	MDL	9.55	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.259	JBQ	0.116	MDL	9.55	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.358	JBQ	0.112	MDL	9.55	PQL	pg/L	U	B
OCDD	5.46	JB	0.249	MDL	19.1	PQL	pg/L	U	B
OCDF	1.12	JB	0.309	MDL	19.1	PQL	pg/L	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP16-SA6-QC-100511 *Collected:* 10/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.43	JB	0.0294	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.319	JB	0.0162	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0604	JB	0.0274	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0870	JB	0.0195	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.108	JBQ	0.0252	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0550	JBQ	0.0168	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0904	JB	0.0257	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0579	JBQ	0.0228	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0422	JQ	0.0321	MDL	5.35	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0608	JBQ	0.0180	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0648	JB	0.0177	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0451	JB	0.0185	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0399	JQ	0.0314	MDL	1.07	PQL	ng/Kg	J	Z, FD
OCDF	0.880	JB	0.0342	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0 *Collected:* 10/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JB	0.0477	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.602	J	0.0606	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.11	JB	0.0465	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.85	JB	0.0445	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.38	JB	0.0576	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.720	JB	0.0501	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.560	J	0.0562	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.27	JB	0.0586	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	5.33	JB	0.0421	MDL	5.39	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0717	JQ	0.0417	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 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	0.630	JBQ	0.0241	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0126	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0398	JBQ	0.0213	MDL	5.09	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-046-SA7-SB-2.5-3.5 *Collected:* 10/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0313	J	0.0184	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0390	JB	0.0139	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0723	JB	0.0186	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0365	JBQ	0.0122	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JB	0.0194	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0455	JBQ	0.0161	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0660	JQ	0.0238	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0300	JBQ	0.0130	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0671	JB	0.0125	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0733	JBQ	0.0133	MDL	5.09	PQL	ng/Kg	U	B
OCDD	3.82	JB	0.0234	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.276	JBQ	0.0285	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0 *Collected:* 10/11/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.02	JB	0.0186	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0862	JB	0.0286	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.171	JQ	0.0354	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.186	JB	0.0246	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.352	JB	0.0352	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.167	JB	0.0221	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.276	JB	0.0344	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.125	JB	0.0255	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.258	J	0.0320	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.336	JB	0.0170	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.142	JBQ	0.0217	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JBQ	0.0166	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0573	JQ	0.0318	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.114	J	0.0235	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.31	JB	0.0309	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory:** LL

EDD Filename: DX148_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-112-SA7-SB-0.0-1.0 *Collected:* 10/10/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.93	JB	0.0278	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.531	JBQ	0.0425	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.547	J	0.0415	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.658	JB	0.0314	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.70	JB	0.0427	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.515	JB	0.0277	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.29	JB	0.0427	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.258	JB	0.0516	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.525	J	0.0416	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.663	JBQ	0.0410	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.523	JB	0.0270	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.15	JB	0.0407	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.137	J	0.0365	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.519	J	0.0687	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	10.4	JB	0.0324	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-137-SA7-SB-0.0-1.0 *Collected:* 10/7/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.61	JB	0.0689	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.74	J	0.0796	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.95	JB	0.0525	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.18	JB	0.0474	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.559	JB	0.0591	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.94	J	0.0816	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.817	JB	0.0425	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.78	JB	0.0519	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.925	JB	0.0399	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.241	JQ	0.0378	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.268	J	0.0511	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.73	JB	0.0796	MDL	5.91	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory:** LL

EDD Filename: DX148_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-138-SA7-SB-1.5-2.5 *Collected:* 10/7/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.53	J	0.0747	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.62	JB	0.0579	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0537	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JBQ	0.0577	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.82	J	0.0815	MDL	5.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.846	JB	0.0333	MDL	5.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.31	JB	0.0499	MDL	5.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0329	MDL	5.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.166	J	0.0473	MDL	1.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.244	J	0.0472	MDL	1.18	PQL	ng/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 11:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.303	JBQ	0.0275	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0737	JB	0.0137	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0356	JBQ	0.0247	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0494	JBQ	0.0162	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.262	JBQ	0.0241	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.187	JB	0.0136	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.377	JB	0.0244	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.122	JBQ	0.0186	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0361	JQ	0.0288	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0394	JB	0.0147	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0351	JB	0.0143	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0496	JB	0.0142	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0343	JQ	0.0232	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.495	JB	0.0248	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.125	JBQ	0.0327	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.292	JBQ	0.0217	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0114	MDL	5.19	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-155-SA7-SB-1.5-2.5 *Collected:* 10/11/2011 12:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0326	JBQ	0.0201	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0301	JQ	0.0216	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0334	JB	0.0220	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0272	JBQ	0.0129	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0465	JBQ	0.0216	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0355	JBQ	0.0160	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0395	JBQ	0.0158	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0447	JBQ	0.0130	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0634	JBQ	0.0168	MDL	5.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0419	JQ	0.0332	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	1.11	JB	0.0215	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.173	JBQ	0.0278	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-159-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 2:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.334	JB	0.0248	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.101	JB	0.0136	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0416	JBQ	0.0240	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0672	JQ	0.0273	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0590	JBQ	0.0181	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0497	JB	0.0155	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0741	JBQ	0.0189	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0671	JBQ	0.0188	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0643	JQ	0.0279	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0892	JBQ	0.0155	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0419	JBQ	0.0148	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.123	JB	0.0157	MDL	5.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0296	JQ	0.0280	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	0.615	JB	0.0223	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.0980	JB	0.0323	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-162-SA7-SB-0.0-1.0 *Collected:* 10/11/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.04	JB	0.0239	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.375	JB	0.0333	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.392	JQ	0.0438	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.301	JB	0.0288	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.02	JBQ	0.0452	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.209	JBQ	0.0263	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.697	JB	0.0409	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0279	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.385	JQ	0.0332	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.308	JB	0.0183	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.307	JBQ	0.0246	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.328	JBQ	0.0178	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0823	J	0.0234	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	9.98	JB	0.0310	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 *Collected:* 10/11/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.14	J	0.0740	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.06	JB	0.0599	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.41	JB	0.0495	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.544	JB	0.0706	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.76	J	0.0703	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.645	JB	0.0307	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.65	JB	0.0527	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.861	JB	0.0329	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.116	J	0.0336	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.250	JQ	0.0443	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.779	JB	0.0365	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.765	J	0.0452	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.645	JB	0.0320	MDL	5.13	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-167-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.70	JB	0.0459	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.447	JBQ	0.0304	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.50	JB	0.0484	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JB	0.0340	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.450	JQ	0.0356	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.199	JBQ	0.0351	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.655	JB	0.0293	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.439	JBQ	0.0333	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.0376	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-169-SA7-SB-3.0-4.0 *Collected:* 10/10/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.749	JB	0.0308	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.270	JB	0.0175	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0638	JBQ	0.0311	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0331	JQ	0.0255	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.130	JBQ	0.0236	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JBQ	0.0269	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0708	JB	0.0200	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.139	JBQ	0.0256	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0908	JBQ	0.0281	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0522	J	0.0273	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.240	JBQ	0.0193	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0784	JBQ	0.0210	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.138	JB	0.0197	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0809	J	0.0331	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	4.64	JB	0.0289	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.471	JB	0.0353	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.836	JB	0.0292	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0167	MDL	5.22	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-265-SA6-SB-4.0-5.0 *Collected:* 10/11/2011 8:47:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0550	JB	0.0256	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0246	JQ	0.0228	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0509	JBQ	0.0173	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0662	JB	0.0211	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0370	JBQ	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0835	JBQ	0.0211	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0336	JB	0.0130	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0898	JBQ	0.0153	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0481	J	0.0230	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	6.83	JB	0.0256	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.322	JB	0.0272	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-268-SA6-SB-4.0-5.0 *Collected:* 10/6/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.93	JB	0.0257	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.467	JBQ	0.0151	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0839	JBQ	0.0221	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0497	JQ	0.0255	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.150	JB	0.0225	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.146	JB	0.0264	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0979	JBQ	0.0207	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JB	0.0263	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0445	JBQ	0.0236	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0873	JQ	0.0280	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.222	JBQ	0.0175	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0871	JB	0.0206	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JB	0.0171	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0933	J	0.0346	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	0.703	JB	0.0277	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.892	JB	0.0228	MDL	5.27	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-301-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.188	JB	0.0102	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0539	JBQ	0.0170	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0432	JQ	0.0211	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0840	JB	0.0163	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0924	JBQ	0.0220	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0680	JBQ	0.0144	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.136	JBQ	0.0224	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.102	JB	0.0177	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0784	JQ	0.0261	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0946	JBQ	0.0156	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0749	JBQ	0.0149	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0757	JB	0.0158	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0408	JQ	0.0254	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	8.34	JB	0.0211	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.455	JB	0.0260	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-319-SA6-SB-4.0-5.0 *Collected:* 10/5/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.977	JB	0.0230	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.243	JB	0.00992	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0384	JB	0.0158	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0511	JB	0.0148	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0541	JBQ	0.0194	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0518	JBQ	0.0125	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0619	JB	0.0188	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0153	U	0.0153	MDL	5.35	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0242	U	0.0242	MDL	5.35	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0286	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0333	JB	0.0130	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0606	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0224	U	0.0224	MDL	1.07	PQL	ng/Kg	UJ	FD
OCDD	9.80	JB	0.0245	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.535	JB	0.0276	MDL	10.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX148

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2830B371902	10/13/2011 7:02:00 PM	1,2,3,4,6,7,8-HPCDD	2.73 pg/L	EB-SA6-SB-100511
		1,2,3,4,6,7,8-HPCDF	1.80 pg/L	EB-SA6-SB-100611
		1,2,3,4,7,8,9-HPCDF	0.278 pg/L	
		1,2,3,4,7,8-HXCDF	0.167 pg/L	
		1,2,3,6,7,8-HXCDF	0.270 pg/L	
		1,2,3,7,8-PECDF	0.312 pg/L	
		2,3,4,6,7,8-HXCDF	0.518 pg/L	
		2,3,4,7,8-PECDF	0.662 pg/L	
		OCDD	5.02 pg/L	
		OCDF	1.34 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
EB-SA6-SB-100511(RES)	1,2,3,4,6,7,8-HPCDD	2.28 pg/L	2.28U pg/L
EB-SA6-SB-100511(RES)	1,2,3,4,6,7,8-HPCDF	1.43 pg/L	1.43U pg/L
EB-SA6-SB-100511(RES)	1,2,3,4,7,8,9-HPCDF	0.138 pg/L	0.138U pg/L
EB-SA6-SB-100511(RES)	1,2,3,4,7,8-HXCDF	0.367 pg/L	0.367U pg/L
EB-SA6-SB-100511(RES)	1,2,3,6,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB-SA6-SB-100511(RES)	2,3,4,6,7,8-HXCDF	0.248 pg/L	0.248U pg/L
EB-SA6-SB-100511(RES)	2,3,4,7,8-PECDF	0.594 pg/L	0.594U pg/L
EB-SA6-SB-100511(RES)	OCDD	3.86 pg/L	3.86U pg/L
EB-SA6-SB-100511(RES)	OCDF	0.743 pg/L	0.743U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,6,7,8-HPCDD	2.42 pg/L	2.42U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,6,7,8-HPCDF	1.19 pg/L	1.19U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,7,8,9-HPCDF	0.295 pg/L	0.295U pg/L
EB-SA6-SB-100611(RES)	1,2,3,4,7,8-HXCDF	0.274 pg/L	0.274U pg/L
EB-SA6-SB-100611(RES)	1,2,3,6,7,8-HXCDF	0.279 pg/L	0.279U pg/L
EB-SA6-SB-100611(RES)	1,2,3,7,8-PECDF	0.157 pg/L	0.157U pg/L
EB-SA6-SB-100611(RES)	2,3,4,6,7,8-HXCDF	0.259 pg/L	0.259U pg/L
EB-SA6-SB-100611(RES)	2,3,4,7,8-PECDF	0.358 pg/L	0.358U pg/L
EB-SA6-SB-100611(RES)	OCDD	5.46 pg/L	5.46U pg/L
EB-SA6-SB-100611(RES)	OCDF	1.12 pg/L	1.12U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2930B370500	10/22/2011 5:00:00 AM	1,2,3,4,6,7,8-HPCDD	0.244 ng/Kg	DUP16-SA6-QC-100511
		1,2,3,4,6,7,8-HPCDF	0.0886 ng/Kg	SL-009-SA3-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0364 ng/Kg	SL-046-SA7-SB-2.5-3.5
		1,2,3,4,7,8-HXCDF	0.0412 ng/Kg	SL-049-SA7-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0373 ng/Kg	SL-112-SA7-SB-0.0-1.0
		1,2,3,6,7,8-HXCDF	0.0308 ng/Kg	SL-137-SA7-SB-0.0-1.0
		1,2,3,7,8,9-HXCDD	0.0323 ng/Kg	SL-138-SA7-SB-1.5-2.5
		1,2,3,7,8,9-HXCDF	0.0261 ng/Kg	SL-147-SA7-SB-1.0-2.0
		1,2,3,7,8-PECDF	0.0371 ng/Kg	SL-155-SA7-SB-1.5-2.5
		2,3,4,6,7,8-HXCDF	0.0373 ng/Kg	SL-159-SA7-SB-3.0-4.0
		2,3,4,7,8-PECDF	0.0800 ng/Kg	SL-162-SA7-SB-0.0-1.0
		OCDD	0.356 ng/Kg	SL-166-SA7-SB-1.0-2.0
		OCDF	0.107 ng/Kg	SL-167-SA7-SB-0.5-1.5
				SL-169-SA7-SB-3.0-4.0
				SL-265-SA6-SB-4.0-5.0
				SL-268-SA6-SB-4.0-5.0
				SL-301-SA6-SB-4.0-5.0
				SL-319-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA6-QC-100511(RES)	1,2,3,4,6,7,8-HPCDF	0.319 ng/Kg	0.319U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,4,7,8,9-HPCDF	0.0604 ng/Kg	0.0604U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,4,7,8-HXCDF	0.0870 ng/Kg	0.0870U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,6,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,7,8,9-HXCDD	0.0904 ng/Kg	0.0904U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,7,8,9-HXCDF	0.0579 ng/Kg	0.0579U ng/Kg
DUP16-SA6-QC-100511(RES)	1,2,3,7,8-PECDF	0.0608 ng/Kg	0.0608U ng/Kg
DUP16-SA6-QC-100511(RES)	2,3,4,6,7,8-HXCDF	0.0648 ng/Kg	0.0648U ng/Kg
DUP16-SA6-QC-100511(RES)	2,3,4,7,8-PECDF	0.0451 ng/Kg	0.0451U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.630 ng/Kg	0.630U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0398 ng/Kg	0.0398U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0390 ng/Kg	0.0390U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-046-SA7-SB-2.5-3.5(RES)	OCDF	0.276 ng/Kg	0.276U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-049-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.259 ng/Kg	0.259U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.303 ng/Kg	0.303U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_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-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	OCDD	0.495 ng/Kg	0.495U ng/Kg
SL-147-SA7-SB-1.0-2.0(RES)	OCDF	0.125 ng/Kg	0.125U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDD	0.292 ng/Kg	0.292U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,6,7,8-HXCDD	0.0334 ng/Kg	0.0334U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDD	0.0465 ng/Kg	0.0465U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDF	0.0355 ng/Kg	0.0355U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	1,2,3,7,8-PECDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	2,3,4,6,7,8-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-155-SA7-SB-1.5-2.5(RES)	OCDF	0.173 ng/Kg	0.173U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.334 ng/Kg	0.334U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.101 ng/Kg	0.101U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0741 ng/Kg	0.0741U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	OCDD	0.615 ng/Kg	0.615U ng/Kg
SL-159-SA7-SB-3.0-4.0(RES)	OCDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-162-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-162-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.328 ng/Kg	0.328U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.749 ng/Kg	0.749U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.270 ng/Kg	0.270U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	0.124U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_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-169-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0708 ng/Kg	0.0708U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0784 ng/Kg	0.0784U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-169-SA7-SB-3.0-4.0(RES)	OCDF	0.471 ng/Kg	0.471U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.836 ng/Kg	0.836U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0662 ng/Kg	0.0662U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0835 ng/Kg	0.0835U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-265-SA6-SB-4.0-5.0(RES)	OCDF	0.322 ng/Kg	0.322U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.134 ng/Kg	0.134U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-268-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.892 ng/Kg	0.892U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	0.188U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0924 ng/Kg	0.0924U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0680 ng/Kg	0.0680U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.136 ng/Kg	0.136U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0946 ng/Kg	0.0946U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-301-SA6-SB-4.0-5.0(RES)	OCDF	0.455 ng/Kg	0.455U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.977 ng/Kg	0.977U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.243 ng/Kg	0.243U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0511 ng/Kg	0.0511U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX148 | Laboratory: LL

EDD Filename: DX148_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-319-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0619 ng/Kg	0.0619U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0286 ng/Kg	0.0286U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0606 ng/Kg	0.0606U ng/Kg
SL-319-SA6-SB-4.0-5.0(RES)	OCDF	0.535 ng/Kg	0.535U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

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

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
1,2,3,4,6,7,8-HPCDD	0.977	1.43	38	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.243	0.319	27	50.00	
1,2,3,4,7,8,9-HPCDF	0.0384	0.0604	45	50.00	
1,2,3,6,7,8-HXCDF	0.0518	0.0550	6	50.00	
1,2,3,7,8,9-HXCDD	0.0619	0.0904	37	50.00	
2,3,4,7,8-PECDF	0.0606	0.0451	29	50.00	
OCDD	9.80	15.7	46	50.00	
OCDF	0.535	0.880	49	50.00	
1,2,3,4,7,8-HXCDF	0.0511	0.0870	52	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HXCDD	0.0541	0.108	67	50.00	
1,2,3,7,8,9-HXCDF	5.35 U	0.0579	200	50.00	
1,2,3,7,8-PECDD	5.35 U	0.0422	200	50.00	
1,2,3,7,8-PECDF	0.0286	0.0608	72	50.00	
2,3,4,6,7,8-HXCDF	0.0333	0.0648	64	50.00	
2,3,7,8-TCDF	1.07 U	0.0399	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 Laboratory: LL

EDD Filename: DX148_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	1,2,3,4,6,7,8-HPCDD	JBQ	2.28	10.6	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.43	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.138	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.367	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	J	0.198	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.256	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	J	0.190	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JQ	0.139	10.6	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.260	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.248	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.594	10.6	PQL	pg/L	
	OCDD	JB	3.86	21.3	PQL	pg/L	
	OCDF	JBQ	0.743	21.3	PQL	pg/L	
EB-SA6-SB-100611	1,2,3,4,6,7,8-HPCDD	JB	2.42	9.55	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.19	9.55	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.295	9.55	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.274	9.55	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	J	0.354	9.55	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.279	9.55	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.157	9.55	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.259	9.55	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.358	9.55	PQL	pg/L	
	OCDD	JB	5.46	19.1	PQL	pg/L	
	OCDF	JB	1.12	19.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	1,2,3,4,6,7,8-HPCDD	JB	1.43	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.319	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0604	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0870	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.108	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0550	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0904	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0579	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0422	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0608	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0648	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0451	5.35	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0399	1.07	PQL	ng/Kg	
	OCDF	JB	0.880	10.7	PQL	ng/Kg	
SL-009-SA3-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.29	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.602	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.11	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.85	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.38	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.720	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.560	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.27	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	5.33	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0717	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-046-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.630	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0398	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0313	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0390	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0723	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0365	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0672	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0455	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0660	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0300	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0671	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0733	5.09	PQL	ng/Kg	
	OCDD	JB	3.82	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.276	10.2	PQL	ng/Kg	
SL-049-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.02	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0862	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.171	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.186	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.352	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.167	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.276	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.125	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.258	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.336	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.142	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.259	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0573	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.114	1.03	PQL	ng/Kg	
	OCDF	JB	2.31	10.3	PQL	ng/Kg	
SL-112-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	4.93	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.531	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.547	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.658	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.70	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.515	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.29	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.258	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.525	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.663	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.523	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.15	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.137	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.519	1.06	PQL	ng/Kg	
	OCDF	JB	10.4	10.6	PQL	ng/Kg	
SL-137-SA7-SB-0.0-1.0	1,2,3,4,7,8,9-HPCDF	JB	4.61	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.74	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.95	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.18	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.559	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.94	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.817	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.78	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.925	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.241	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.268	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 | Laboratory: LL

EDD Filename: DX148_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA7-SB-1.5-2.5	1,2,3,4,7,8,9-HPCDF	JB	3.73	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.53	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.62	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.77	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.538	5.91	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.82	5.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.846	5.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.31	5.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.166	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.244	1.18	PQL	ng/Kg	
SL-147-SA7-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.303	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0737	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0356	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0494	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.262	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.187	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.377	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.122	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0361	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0394	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0351	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0496	5.33	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0343	1.07	PQL	ng/Kg	
	OCDD	JB	0.495	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.125	10.7	PQL	ng/Kg	
SL-155-SA7-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.292	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0326	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0301	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0334	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0272	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0465	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0355	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0395	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0447	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0634	5.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0419	1.04	PQL	ng/Kg	
	OCDD	JB	1.11	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.173	10.4	PQL	ng/Kg	
SL-159-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.334	5.20	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.101	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0416	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0672	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0590	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0497	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0741	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0671	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0643	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0892	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0419	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.123	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0296	1.04	PQL	ng/Kg	
	OCDD	JB	0.615	10.4	PQL	ng/Kg	
	OCDF	JB	0.0980	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	4.04	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.375	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.392	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.301	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	1.02	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.209	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.697	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.385	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.308	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.307	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.328	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0823	1.01	PQL	ng/Kg	
	OCDF	JB	9.98	10.1	PQL	ng/Kg	
SL-166-SA7-SB-1.0-2.0	1,2,3,4,7,8-HxCDD	J	4.14	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	2.06	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.41	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.544	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.76	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.645	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.65	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.861	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.116	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.250	1.02	PQL	ng/Kg	
SL-167-SA7-SB-0.5-1.5	1,2,3,4,7,8,9-HPCDF	JB	0.779	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.765	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.645	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.70	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.447	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.169	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.450	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.199	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.655	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.439	5.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	1.03	PQL	ng/Kg	
SL-169-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.749	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.270	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0638	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0331	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.130	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.124	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0708	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.139	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0908	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0522	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.240	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0784	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.138	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0809	1.03	PQL	ng/Kg	
	OCDD	JB	4.64	10.3	PQL	ng/Kg	
	OCDF	JB	0.471	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX148 **Laboratory: LL**

EDD Filename: DX148_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-265-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.836	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0550	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0246	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0509	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0662	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0370	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0835	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0336	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0898	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0481	1.04	PQL	ng/Kg	
	OCDD	JB	6.83	10.4	PQL	ng/Kg	
	OCDF	JB	0.322	10.4	PQL	ng/Kg	
SL-268-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.93	5.02	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.467	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0839	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0497	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0979	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.134	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0445	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0873	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.222	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0871	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.177	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0933	1.00	PQL	ng/Kg	
	OCDF	JB	0.703	10.0	PQL	ng/Kg	
SL-301-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.892	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.188	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0539	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0432	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0840	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0924	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0680	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.136	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.102	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0784	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0946	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0749	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0757	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0408	1.05	PQL	ng/Kg	
	OCDD	JB	8.34	10.5	PQL	ng/Kg	
	OCDF	JB	0.455	10.5	PQL	ng/Kg	
SL-319-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.977	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.243	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0384	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0511	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0541	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0518	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0619	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0286	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0333	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0606	5.35	PQL	ng/Kg	
	OCDD	JB	9.80	10.7	PQL	ng/Kg	
	OCDF	JB	0.535	10.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX149

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434489	N	METHOD	1613B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0	6435711	N	METHOD	1613B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MS	6435712	MS	METHOD	1613B	III
12-Oct-2011	SL-011-SA3-SB-4.0-5.0MSD	6435713	MSD	METHOD	1613B	III
12-Oct-2011	DUP01-SA3-QC-101211	6435715	FD	METHOD	1613B	III
12-Oct-2011	SL-096-SA7-SB-2.0-3.0	6435714	N	METHOD	1613B	III
12-Oct-2011	EB-SA3-SB-101211	6435716	EB	METHOD	1613B	III
13-Oct-2011	SL-006-SA3-SB-9.0-10.0	6438635	N	METHOD	1613B	III
13-Oct-2011	SL-006-SA3-SB-4.0-5.0	6438634	N	METHOD	1613B	III
14-Oct-2011	SL-037-SA5DS-SB-9.0-10.0	6438639	N	METHOD	1613B	III
14-Oct-2011	SL-037-SA5DS-SB-4.0-5.0	6438638	N	METHOD	1613B	III
14-Oct-2011	SL-038-SA5DS-SB-9.0-10.0	6438641	N	METHOD	1613B	III
14-Oct-2011	SL-038-SA5DS-SB-4.0-5.0	6438640	N	METHOD	1613B	III
14-Oct-2011	SL-036-SA5DS-SB-9.0-10.0	6438637	N	METHOD	1613B	III
14-Oct-2011	SL-036-SA5DS-SB-4.0-5.0	6438636	N	METHOD	1613B	III
14-Oct-2011	SL-164-SA7-SB-0.5-1.5	6438642	N	METHOD	1613B	III
18-Oct-2011	SL-013-SA5DS-SB-4.0-5.0	6441984	N	METHOD	1613B	III
18-Oct-2011	SL-140-SA7-SB-3.0-4.0	6441988	N	METHOD	1613B	III
18-Oct-2011	SL-015-SA5DS-SB-3.5-4.5	6441985	N	METHOD	1613B	III
18-Oct-2011	SL-020-SA7-SB-4.0-5.0	6441986	N	METHOD	1613B	III
18-Oct-2011	EB-SA5DS-SB-101811	6441989	EB	METHOD	1613B	III
18-Oct-2011	SL-020-SA7-SB-9.0-10.0	6441987	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: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA3-SB-101211 *Collected:* 10/12/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.15	JBQ	0.296	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.86	JB	0.127	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.238	JBQ	0.143	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.305	JQ	0.233	MDL	10.2	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.319	JBQ	0.150	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.290	JQ	0.243	MDL	10.2	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.337	JBQ	0.149	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.265	JBQ	0.221	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.243	JBQ	0.158	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.499	JBQ	0.325	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.248	JBQ	0.166	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.426	JBQ	0.139	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.485	JB	0.152	MDL	10.2	PQL	pg/L	U	B
2,3,7,8-TCDD	0.436	JQ	0.376	MDL	2.03	PQL	pg/L	J	Z
OCDD	8.35	JB	0.234	MDL	20.3	PQL	pg/L	U	B
OCDF	1.46	JB	0.285	MDL	20.3	PQL	pg/L	U	B

Sample ID: EB-SA5DS-SB-101811 *Collected:* 10/18/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.72	JB	0.215	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.10	JBQ	0.118	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.403	JBQ	0.133	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.500	JBQ	0.127	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.269	JBQ	0.225	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.297	JBQ	0.126	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.264	JB	0.221	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.364	JBQ	0.130	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.332	JQ	0.230	MDL	10.2	PQL	pg/L	J	Z
1,2,3,7,8-PECDF	0.161	JBQ	0.139	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.370	JBQ	0.119	MDL	10.2	PQL	pg/L	U	B
OCDD	5.70	JB	0.291	MDL	20.4	PQL	pg/L	U	B
OCDF	1.39	JB	0.363	MDL	20.4	PQL	pg/L	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP01-SA3-QC-101211 ***Collected:*** 10/12/2011 10:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0434	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.551	JB	0.0200	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.103	JBQ	0.0260	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0523	JBQ	0.0329	MDL	5.05	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.431	JB	0.0380	MDL	5.05	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.161	J	0.0351	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.151	JB	0.0355	MDL	5.05	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.126	JB	0.0356	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0620	JBQ	0.0390	MDL	5.05	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0790	JBQ	0.0455	MDL	5.05	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0458	JB	0.0371	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.187	JB	0.0324	MDL	5.05	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.572	JB	0.0342	MDL	5.05	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0730	J	0.0502	MDL	1.01	PQL	ng/Kg	J	Z, FD
OCDD	11.1	B	0.0418	MDL	10.1	PQL	ng/Kg	J	FD
OCDF	1.02	JB	0.0356	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA3-SB-4.0-5.0 ***Collected:*** 10/13/2011 3:29:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.276	JB	0.0305	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.176	JB	0.0142	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0370	JBQ	0.0186	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0633	JBQ	0.0279	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0431	JBQ	0.0155	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0516	JQ	0.0289	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0193	JBQ	0.0143	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0621	JBQ	0.0298	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0450	JBQ	0.0386	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0445	JBQ	0.0186	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0589	JBQ	0.0136	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0526	JB	0.0175	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0372	JQ	0.0286	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.641	JBQ	0.0312	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-006-SA3-SB-4.0-5.0** ***Collected:*** **10/13/2011 3:29:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.158	JB	0.0408	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: **SL-006-SA3-SB-9.0-10.0** ***Collected:*** **10/13/2011 2:47:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.342	JBQ	0.0307	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.234	JB	0.0160	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0545	JB	0.0203	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.126	JBQ	0.0225	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0545	JQ	0.0307	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0975	JBQ	0.0211	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0856	JBQ	0.0291	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0731	JBQ	0.0224	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.123	JBQ	0.0223	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0980	JB	0.0193	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.118	JBQ	0.0197	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.115	JQ	0.0525	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.910	JB	0.0262	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.145	JB	0.0370	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-011-SA3-SB-4.0-5.0** ***Collected:*** **10/12/2011 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	0.940	JB	0.0453	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.515	JB	0.0206	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0805	JBQ	0.0292	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0260	U	0.0260	MDL	5.07	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.247	JBQ	0.0262	MDL	5.07	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.106	JQ	0.0268	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0517	JB	0.0245	MDL	5.07	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.143	JB	0.0273	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0282	U	0.0282	MDL	5.07	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0407	U	0.0407	MDL	5.07	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0648	JBQ	0.0269	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0969	JBQ	0.0222	MDL	5.07	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-011-SA3-SB-4.0-5.0 *Collected:* 10/12/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.288	JB	0.0263	MDL	5.07	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0390	U	0.0390	MDL	1.01	PQL	ng/Kg	UJ	FD
OCDD	5.84	JB	0.0394	MDL	10.1	PQL	ng/Kg	J	Z, FD
OCDF	0.637	JBQ	0.0407	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-013-SA5DS-SB-4.0-5.0 *Collected:* 10/18/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.263	JBQ	0.0256	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JB	0.0117	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0406	JBQ	0.0169	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0251	JBQ	0.0250	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0358	JBQ	0.0157	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0758	J	0.0267	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0671	JB	0.0146	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.113	JB	0.0254	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0840	JBQ	0.0165	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0766	JBQ	0.0315	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0766	JBQ	0.0172	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0424	JB	0.0139	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0965	JBQ	0.0161	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0307	JQ	0.0263	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.429	JB	0.0279	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.141	JBQ	0.0332	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.414	JBQ	0.0291	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JB	0.0137	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0561	JB	0.0195	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0750	JBQ	0.0280	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.132	JBQ	0.0221	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.199	J	0.0290	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0199	MDL	5.44	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-015-SA5DS-SB-3.5-4.5 *Collected:* 10/18/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.264	JBQ	0.0292	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.182	JBQ	0.0225	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.176	JBQ	0.0423	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.193	JBQ	0.0199	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0756	JBQ	0.0180	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.182	JBQ	0.0192	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0480	JQ	0.0419	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0938	JQ	0.0325	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	2.44	JB	0.0239	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.233	JB	0.0376	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-020-SA7-SB-4.0-5.0 *Collected:* 10/18/2011 12:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.76	JB	0.0446	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.954	JB	0.0232	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.112	JBQ	0.0358	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0621	JB	0.0356	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.456	JB	0.0345	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.313	JQ	0.0347	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.130	JB	0.0304	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.199	JB	0.0343	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0967	JBQ	0.0334	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.250	JBQ	0.0416	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.375	JBQ	0.0292	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.151	JB	0.0298	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.405	JBQ	0.0290	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.141	JQ	0.0460	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0709	J	0.0483	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.73	JB	0.0436	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.492	JB	0.0289	MDL	5.71	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-020-SA7-SB-9.0-10.0 *Collected:* 10/18/2011 2:44:00 *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-HPCDF	0.124	JB	0.0144	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0384	JB	0.0204	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0784	JB	0.0196	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0385	JQ	0.0264	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0799	JBQ	0.0179	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0668	JB	0.0262	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0791	JBQ	0.0195	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.117	JBQ	0.0400	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.163	JB	0.0203	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0421	JBQ	0.0162	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.145	JB	0.0192	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0367	JQ	0.0328	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0346	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.188	JB	0.0387	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-036-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.366	JBQ	0.0346	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.229	JBQ	0.0152	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0191	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.202	JBQ	0.0323	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.241	JB	0.0243	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.197	JQ	0.0328	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.281	JBQ	0.0222	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.158	JBQ	0.0322	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.184	JBQ	0.0235	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.391	JB	0.0450	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.479	JB	0.0230	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.165	JBQ	0.0211	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.357	JB	0.0207	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0632	JQ	0.0504	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0811	J	0.0298	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.559	JBQ	0.0305	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-036-SA5DS-SB-4.0-5.0** ***Collected:*** **10/14/2011 11:38:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.200	JBQ	0.0389	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-036-SA5DS-SB-9.0-10.0** ***Collected:*** **10/14/2011 11:34:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.355	JBQ	0.0349	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JBQ	0.0167	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0242	JBQ	0.0227	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0897	JBQ	0.0364	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.137	JBQ	0.0243	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.286	J	0.0369	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.166	JBQ	0.0217	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.690	JBQ	0.0360	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.725	JBQ	0.0245	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.182	JBQ	0.0440	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.267	JB	0.0217	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.114	JB	0.0204	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.168	JBQ	0.0209	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0589	JQ	0.0349	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.628	JB	0.0335	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.112	JBQ	0.0453	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-037-SA5DS-SB-4.0-5.0** ***Collected:*** **10/14/2011 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
1,2,3,4,6,7,8-HPCDD	0.294	JBQ	0.0338	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.138	JBQ	0.0171	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0546	JBQ	0.0234	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0654	JBQ	0.0311	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.136	JBQ	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.239	J	0.0320	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0902	JBQ	0.0235	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.488	JB	0.0343	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.657	JB	0.0258	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.172	JBQ	0.0442	MDL	5.75	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
1,2,3,7,8-PECDF	0.301	JB	0.0224	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0677	JBQ	0.0213	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.285	JBQ	0.0201	MDL	5.75	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.114	JQ	0.0563	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0416	J	0.0344	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	0.670	JB	0.0350	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.0767	JB	0.0428	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.298	JB	0.0337	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0771	JB	0.0142	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0336	JBQ	0.0215	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0314	JBQ	0.0287	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0300	JBQ	0.0187	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0294	JBQ	0.0165	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0452	JBQ	0.0291	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0584	JBQ	0.0184	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0215	JBQ	0.0202	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0283	JBQ	0.0150	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0579	JBQ	0.0196	MDL	5.83	PQL	ng/Kg	U	B
OCDD	0.585	JB	0.0303	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.194	JB	0.0405	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.268	JBQ	0.0314	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0996	JBQ	0.0140	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0575	JBQ	0.0205	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0436	JBQ	0.0246	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0179	JBQ	0.0169	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0236	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0167	MDL	5.38	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-038-SA5DS-SB-4.0-5.0 *Collected:* 10/14/2011 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
1,2,3,7,8-PECDF	0.0523	JBQ	0.0175	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0392	JBQ	0.0174	MDL	5.38	PQL	ng/Kg	U	B
OCDD	0.914	JB	0.0271	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.217	JBQ	0.0406	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DS-SB-9.0-10.0 *Collected:* 10/14/2011 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	0.332	JBQ	0.0263	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0871	JBQ	0.0145	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	JBQ	0.0198	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0292	JB	0.0187	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0232	JBQ	0.0166	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0735	JBQ	0.0288	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.147	JBQ	0.0201	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0544	JBQ	0.0352	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0315	JBQ	0.0188	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0281	JBQ	0.0161	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0419	JBQ	0.0172	MDL	5.22	PQL	ng/Kg	U	B
OCDD	0.580	JB	0.0296	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.146	JBQ	0.0351	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-096-SA7-SB-2.0-3.0 *Collected:* 10/12/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.07	JB	0.0240	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.152	JBQ	0.0340	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.184	JBQ	0.0419	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0644	JB	0.0333	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.468	JQ	0.0425	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JB	0.0289	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.396	JB	0.0419	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.251	JB	0.0299	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.162	JB	0.0452	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.135	JBQ	0.0250	MDL	4.99	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-096-SA7-SB-2.0-3.0 ***Collected:*** 10/12/2011 11:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.163	JBQ	0.0250	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.219	JBQ	0.0235	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0540	JQ	0.0499	MDL	0.997	PQL	ng/Kg	J	Z
OCDF	2.53	JB	0.0419	MDL	9.97	PQL	ng/Kg	J	Z

Sample ID: SL-140-SA7-SB-3.0-4.0 ***Collected:*** 10/18/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.381	JBQ	0.0273	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0982	JB	0.0129	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0737	JB	0.0200	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0354	JBQ	0.0225	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0432	JQ	0.0229	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0285	JBQ	0.0158	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0726	JBQ	0.0223	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0377	JBQ	0.0170	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0517	JBQ	0.0343	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0563	JBQ	0.0177	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0408	JBQ	0.0146	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0830	JBQ	0.0178	MDL	5.38	PQL	ng/Kg	U	B
OCDD	1.58	JB	0.0281	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.131	JB	0.0389	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-164-SA7-SB-0.5-1.5 ***Collected:*** 10/14/2011 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.584	JB	0.0335	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0150	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JBQ	0.0220	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	JBQ	0.0289	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0717	JBQ	0.0219	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0286	JB	0.0195	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0690	JB	0.0280	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0294	JBQ	0.0211	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0477	JB	0.0339	MDL	5.00	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory:** LL

EDD Filename: DX149_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-164-SA7-SB-0.5-1.5 *Collected:* 10/14/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0354	JBQ	0.0222	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0622	JBQ	0.0177	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0601	JB	0.0210	MDL	5.00	PQL	ng/Kg	U	B
OCDD	4.56	JB	0.0246	MDL	9.99	PQL	ng/Kg	J	Z
OCDF	0.392	JBQ	0.0368	MDL	9.99	PQL	ng/Kg	U	B

Sample ID: SL-168-SA7-SB-0.5-1.5 *Collected:* 10/11/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.08	JB	0.0318	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.475	JB	0.0351	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.492	JB	0.0437	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.755	JB	0.0424	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.44	J	0.0445	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.248	JB	0.0387	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.997	JB	0.0433	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.147	JB	0.0351	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.347	JB	0.0402	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0565	JB	0.0341	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.342	JB	0.0307	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.387	JB	0.0315	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0601	J	0.0385	MDL	1.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX149

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2920B371632	10/21/2011 4:32:00 PM	1,2,3,4,6,7,8-HPCDD	2.75 pg/L	EB-SA3-SB-101211
		1,2,3,4,6,7,8-HPCDF	2.04 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.351 pg/L	
		1,2,3,4,7,8-HXCDF	0.536 pg/L	
		1,2,3,6,7,8-HXCDF	0.592 pg/L	
		1,2,3,7,8,9-HXCDD	0.623 pg/L	
		1,2,3,7,8,9-HXCDF	0.484 pg/L	
		1,2,3,7,8-PECDD	0.541 pg/L	
		1,2,3,7,8-PECDF	0.414 pg/L	
		2,3,4,6,7,8-HXCDF	0.606 pg/L	
		2,3,4,7,8-PECDF	0.934 pg/L	
		OCDD	5.09 pg/L	
		OCDF	1.52 pg/L	
BLK2970B372330	10/25/2011 11:30:00 PM	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	EB-SA5DS-SB-101811
		1,2,3,4,6,7,8-HPCDF	1.54 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.445 pg/L	
		1,2,3,4,7,8-HXCDF	0.588 pg/L	
		1,2,3,6,7,8-HXCDD	0.372 pg/L	
		1,2,3,6,7,8-HXCDF	0.410 pg/L	
		1,2,3,7,8,9-HXCDD	0.989 pg/L	
		1,2,3,7,8,9-HXCDF	0.976 pg/L	
		1,2,3,7,8-PECDF	0.262 pg/L	
		2,3,4,6,7,8-HXCDF	0.342 pg/L	
		2,3,4,7,8-PECDF	0.327 pg/L	
		2,3,7,8-TCDF	0.339 pg/L	
		OCDD	6.96 pg/L	
		OCDF	2.32 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
EB-SA3-SB-101211(RES)	1,2,3,4,6,7,8-HPCDD	3.15 pg/L	3.15U pg/L
EB-SA3-SB-101211(RES)	1,2,3,4,6,7,8-HPCDF	1.86 pg/L	1.86U pg/L
EB-SA3-SB-101211(RES)	1,2,3,4,7,8,9-HPCDF	0.238 pg/L	0.238U pg/L
EB-SA3-SB-101211(RES)	1,2,3,4,7,8-HXCDF	0.319 pg/L	0.319U pg/L
EB-SA3-SB-101211(RES)	1,2,3,6,7,8-HXCDF	0.337 pg/L	0.337U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8,9-HXCDD	0.265 pg/L	0.265U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8,9-HXCDF	0.243 pg/L	0.243U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8-PECDD	0.499 pg/L	0.499U pg/L
EB-SA3-SB-101211(RES)	1,2,3,7,8-PECDF	0.248 pg/L	0.248U pg/L
EB-SA3-SB-101211(RES)	2,3,4,6,7,8-HXCDF	0.426 pg/L	0.426U pg/L
EB-SA3-SB-101211(RES)	2,3,4,7,8-PECDF	0.485 pg/L	0.485U pg/L
EB-SA3-SB-101211(RES)	OCDD	8.35 pg/L	8.35U pg/L
EB-SA3-SB-101211(RES)	OCDF	1.46 pg/L	1.46U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,6,7,8-HPCDD	2.72 pg/L	2.72U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,6,7,8-HPCDF	2.10 pg/L	2.10U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,7,8,9-HPCDF	0.403 pg/L	0.403U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,4,7,8-HXCDF	0.500 pg/L	0.500U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,6,7,8-HXCDD	0.269 pg/L	0.269U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,6,7,8-HXCDF	0.297 pg/L	0.297U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,7,8,9-HXCDD	0.264 pg/L	0.264U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,7,8,9-HXCDF	0.364 pg/L	0.364U pg/L
EB-SA5DS-SB-101811(RES)	1,2,3,7,8-PECDF	0.161 pg/L	0.161U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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
EB-SA5DS-SB-101811(RES)	2,3,4,6,7,8-HXCDF	0.370 pg/L	0.370U pg/L
EB-SA5DS-SB-101811(RES)	OCDD	5.70 pg/L	5.70U pg/L
EB-SA5DS-SB-101811(RES)	OCDF	1.39 pg/L	1.39U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2940B371447	10/24/2011 2:47:00 PM	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	DUP01-SA3-QC-101211
		1,2,3,4,6,7,8-HPCDF	0.154 ng/Kg	SL-006-SA3-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0824 ng/Kg	SL-006-SA3-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0460 ng/Kg	SL-011-SA3-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0843 ng/Kg	SL-013-SA5DS-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0224 ng/Kg	SL-015-SA5DS-SB-3.5-4.5
		1,2,3,7,8,9-HXCDD	0.0516 ng/Kg	SL-020-SA7-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0575 ng/Kg	SL-020-SA7-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0460 ng/Kg	SL-036-SA5DS-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0382 ng/Kg	SL-036-SA5DS-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	SL-037-SA5DS-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0374 ng/Kg	SL-037-SA5DS-SB-9.0-10.0
		OCDD	0.461 ng/Kg	SL-038-SA5DS-SB-4.0-5.0
		OCDF	0.172 ng/Kg	SL-038-SA5DS-SB-9.0-10.0
				SL-096-SA7-SB-2.0-3.0
				SL-140-SA7-SB-3.0-4.0
				SL-164-SA7-SB-0.5-1.5
				SL-168-SA7-SB-0.5-1.5

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-SA3-QC-101211(RES)	1,2,3,4,6,7,8-HPCDF	0.551 ng/Kg	0.551U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	0.103U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,4,7,8-HxCDD	0.0523 ng/Kg	0.0523U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8,9-HXCDD	0.126 ng/Kg	0.126U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8,9-HXCDF	0.0620 ng/Kg	0.0620U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8-PECDD	0.0790 ng/Kg	0.0790U ng/Kg
DUP01-SA3-QC-101211(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
DUP01-SA3-QC-101211(RES)	2,3,4,6,7,8-HXCDF	0.187 ng/Kg	0.187U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.276 ng/Kg	0.276U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0633 ng/Kg	0.0633U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0621 ng/Kg	0.0621U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0450 ng/Kg	0.0450U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_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-006-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0589 ng/Kg	0.0589U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	OCDD	0.641 ng/Kg	0.641U ng/Kg
SL-006-SA3-SB-4.0-5.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.234 ng/Kg	0.234U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0975 ng/Kg	0.0975U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0856 ng/Kg	0.0856U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	OCDD	0.910 ng/Kg	0.910U ng/Kg
SL-006-SA3-SB-9.0-10.0(RES)	OCDF	0.145 ng/Kg	0.145U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.940 ng/Kg	0.940U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.515 ng/Kg	0.515U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.247 ng/Kg	0.247U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0517 ng/Kg	0.0517U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SL-011-SA3-SB-4.0-5.0(RES)	OCDF	0.637 ng/Kg	0.637U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.263 ng/Kg	0.263U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0406 ng/Kg	0.0406U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0251 ng/Kg	0.0251U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0358 ng/Kg	0.0358U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0766 ng/Kg	0.0766U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0965 ng/Kg	0.0965U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	OCDD	0.429 ng/Kg	0.429U ng/Kg
SL-013-SA5DS-SB-4.0-5.0(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_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-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.414 ng/Kg	0.414U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0750 ng/Kg	0.0750U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.176 ng/Kg	0.176U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.182 ng/Kg	0.182U ng/Kg
SL-015-SA5DS-SB-3.5-4.5(RES)	OCDF	0.233 ng/Kg	0.233U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0621 ng/Kg	0.0621U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.199 ng/Kg	0.199U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-020-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.492 ng/Kg	0.492U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0784 ng/Kg	0.0784U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0668 ng/Kg	0.0668U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0791 ng/Kg	0.0791U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.117 ng/Kg	0.117U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.145 ng/Kg	0.145U ng/Kg
SL-020-SA7-SB-9.0-10.0(RES)	OCDF	0.188 ng/Kg	0.188U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.366 ng/Kg	0.366U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.202 ng/Kg	0.202U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.158 ng/Kg	0.158U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	OCDD	0.559 ng/Kg	0.559U ng/Kg
SL-036-SA5DS-SB-4.0-5.0(RES)	OCDF	0.200 ng/Kg	0.200U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.355 ng/Kg	0.355U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0242 ng/Kg	0.0242U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_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-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0897 ng/Kg	0.0897U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.182 ng/Kg	0.182U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.168 ng/Kg	0.168U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	OCDD	0.628 ng/Kg	0.628U ng/Kg
SL-036-SA5DS-SB-9.0-10.0(RES)	OCDF	0.112 ng/Kg	0.112U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.294 ng/Kg	0.294U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.138 ng/Kg	0.138U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0654 ng/Kg	0.0654U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.172 ng/Kg	0.172U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	OCDD	0.670 ng/Kg	0.670U ng/Kg
SL-037-SA5DS-SB-4.0-5.0(RES)	OCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.298 ng/Kg	0.298U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0283 ng/Kg	0.0283U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	OCDD	0.585 ng/Kg	0.585U ng/Kg
SL-037-SA5DS-SB-9.0-10.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.268 ng/Kg	0.268U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0996 ng/Kg	0.0996U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0436 ng/Kg	0.0436U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0179 ng/Kg	0.0179U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0523 ng/Kg	0.0523U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-038-SA5DS-SB-4.0-5.0(RES)	OCDD	0.914 ng/Kg	0.914U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_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-038-SA5DS-SB-4.0-5.0(RES)	OCDF	0.217 ng/Kg	0.217U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.332 ng/Kg	0.332U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0735 ng/Kg	0.0735U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0315 ng/Kg	0.0315U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0281 ng/Kg	0.0281U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	OCDD	0.580 ng/Kg	0.580U ng/Kg
SL-038-SA5DS-SB-9.0-10.0(RES)	OCDF	0.146 ng/Kg	0.146U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.184 ng/Kg	0.184U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.162 ng/Kg	0.162U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-096-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.381 ng/Kg	0.381U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0737 ng/Kg	0.0737U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0354 ng/Kg	0.0354U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0726 ng/Kg	0.0726U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0517 ng/Kg	0.0517U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0563 ng/Kg	0.0563U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	OCDD	1.58 ng/Kg	1.58U ng/Kg
SL-140-SA7-SB-3.0-4.0(RES)	OCDF	0.131 ng/Kg	0.131U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDD	0.584 ng/Kg	0.584U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.0717 ng/Kg	0.0717U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.0286 ng/Kg	0.0286U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX149 Laboratory: LL

EDD Filename: DX149_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-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.0601 ng/Kg	0.0601U ng/Kg
SL-164-SA7-SB-0.5-1.5(RES)	OCDF	0.392 ng/Kg	0.392U ng/Kg
SL-168-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-168-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDF	0.0565 ng/Kg	0.0565U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
MOISTURE	2.2	2.4	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-011-SA3-SB-4.0-5.0	DUP01-SA3-QC-101211			
1,2,3,4,6,7,8-HPCDD	0.940	1.37	37	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.515	0.551	7	50.00	
1,2,3,4,7,8,9-HPCDF	0.0805	0.103	25	50.00	
1,2,3,6,7,8-HXCDD	0.106	0.161	41	50.00	
1,2,3,7,8,9-HXCDD	0.143	0.126	13	50.00	
1,2,3,7,8-PECDF	0.0648	0.0458	34	50.00	
OCDF	0.637	1.02	46	50.00	
1,2,3,4,7,8-HxCDD	5.07 U	0.0523	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HXCDF	0.247	0.431	54	50.00	
1,2,3,6,7,8-HXCDF	0.0517	0.151	98	50.00	
1,2,3,7,8,9-HXCDF	5.07 U	0.0620	200	50.00	
1,2,3,7,8-PECDD	5.07 U	0.0790	200	50.00	
2,3,4,6,7,8-HXCDF	0.0969	0.187	63	50.00	
2,3,4,7,8-PECDF	0.288	0.572	66	50.00	
2,3,7,8-TCDF	1.01 U	0.0730	200	50.00	
OCDD	5.84	11.1	62	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA3-SB-101211	1,2,3,4,6,7,8-HPCDD	JBQ	3.15	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.86	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.238	10.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.305	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.319	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.290	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.337	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.265	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.243	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.499	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.248	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.426	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.485	10.2	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.436	2.03	PQL	pg/L	
	OCDD	JB	8.35	20.3	PQL	pg/L	
	OCDF	JB	1.46	20.3	PQL	pg/L	
EB-SA5DS-SB-101811	1,2,3,4,6,7,8-HPCDD	JB	2.72	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	2.10	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.403	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.500	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.269	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.297	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.264	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.364	10.2	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.332	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.161	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.370	10.2	PQL	pg/L	
	OCDD	JB	5.70	20.4	PQL	pg/L	
	OCDF	JB	1.39	20.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA3-QC-101211	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.551	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.103	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0523	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.431	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.161	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.126	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0620	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0790	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0458	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.187	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.572	5.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0730	1.01	PQL	ng/Kg	
	OCDF	JB	1.02	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.276	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.176	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0370	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0633	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0431	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0516	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0193	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0621	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0450	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0445	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0589	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0526	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0372	1.09	PQL	ng/Kg	
	OCDD	JBQ	0.641	10.9	PQL	ng/Kg	
	OCDF	JB	0.158	10.9	PQL	ng/Kg	
SL-006-SA3-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.342	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.234	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0545	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.126	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0545	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0975	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0856	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0731	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.123	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0980	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.118	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.115	1.13	PQL	ng/Kg	
	OCDD	JB	0.910	11.3	PQL	ng/Kg	
	OCDF	JB	0.145	11.3	PQL	ng/Kg	
SL-011-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.940	5.07	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.515	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0805	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.247	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.106	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0517	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.143	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0648	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0969	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.288	5.07	PQL	ng/Kg	
	OCDD	JB	5.84	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.637	10.1	PQL	ng/Kg	
SL-013-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.263	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.108	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0406	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0251	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0358	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0758	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0671	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.113	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0840	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0766	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0766	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0424	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0965	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0307	1.10	PQL	ng/Kg	
	OCDD	JB	0.429	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.141	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-015-SA5DS-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.414	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.115	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0561	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0750	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.132	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.199	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.264	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.182	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.176	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.193	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0756	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.182	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0480	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0938	1.09	PQL	ng/Kg	
	OCDD	JB	2.44	10.9	PQL	ng/Kg	
	OCDF	JB	0.233	10.9	PQL	ng/Kg	
SL-020-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.76	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.954	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.112	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0621	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.456	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.313	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.130	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0967	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.250	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.375	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.151	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.405	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.141	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0709	1.03	PQL	ng/Kg	
	OCDF	JB	1.73	10.3	PQL	ng/Kg	
SL-020-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.492	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.124	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0384	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0784	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0385	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0799	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0668	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0791	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.117	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.163	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0421	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.145	5.71	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0367	1.14	PQL	ng/Kg	
	OCDD	JB	2.78	11.4	PQL	ng/Kg	
	OCDF	JB	0.188	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-036-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.366	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.229	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.202	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.241	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.197	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.281	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.158	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.184	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.391	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.479	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.165	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.357	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0632	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0811	1.15	PQL	ng/Kg	
	OCDD	JBQ	0.559	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.200	11.5	PQL	ng/Kg	
SL-036-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.355	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.165	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0242	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0897	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.137	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.286	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.166	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.690	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.725	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.182	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.267	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.114	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.168	5.64	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0589	1.13	PQL	ng/Kg	
	OCDD	JB	0.628	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.112	11.3	PQL	ng/Kg	
SL-037-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.294	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.138	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0546	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0654	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.136	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.239	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0902	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.488	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.657	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.172	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.301	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0677	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.285	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.114	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0416	1.15	PQL	ng/Kg	
	OCDD	JB	0.670	11.5	PQL	ng/Kg	
	OCDF	JB	0.0767	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 | Laboratory: LL

EDD Filename: DX149_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.298	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0771	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0336	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0314	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0300	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0294	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0452	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0584	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0215	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0283	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0579	5.83	PQL	ng/Kg	
	OCDD	JB	0.585	11.7	PQL	ng/Kg	
	OCDF	JB	0.194	11.7	PQL	ng/Kg	
SL-038-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.268	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0996	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0575	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0436	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0179	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0523	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0392	5.38	PQL	ng/Kg	
	OCDD	JB	0.914	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.217	10.8	PQL	ng/Kg	
SL-038-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.332	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0871	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0399	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0292	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0232	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0735	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.147	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0544	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0315	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0281	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0419	5.22	PQL	ng/Kg	
	OCDD	JB	0.580	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.146	10.4	PQL	ng/Kg	
SL-096-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.07	4.99	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.152	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.184	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0644	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.468	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.143	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.396	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.251	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.162	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.135	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.163	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.219	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0540	0.997	PQL	ng/Kg	
	OCDF	JB	2.53	9.97	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX149 **Laboratory: LL**

EDD Filename: DX149_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-140-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.381	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0982	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0737	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0354	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0432	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0285	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0726	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0377	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0517	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0563	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0408	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0830	5.38	PQL	ng/Kg	
	OCDD	JB	1.58	10.8	PQL	ng/Kg	
	OCDF	JB	0.131	10.8	PQL	ng/Kg	
SL-164-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	0.584	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0524	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0311	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0717	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0286	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0690	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0294	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0477	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0354	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0622	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0601	5.00	PQL	ng/Kg	
	OCDD	JB	4.56	9.99	PQL	ng/Kg	
	OCDF	JBQ	0.392	9.99	PQL	ng/Kg	
SL-168-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDF	JB	5.08	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.475	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.492	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.755	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.44	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.248	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.997	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.147	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.347	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0565	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.342	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.387	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0601	1.03	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX150

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-Oct-2011	SL-005-SA3-SB-7.5-8.5	6437219	N	METHOD	1613B	III
13-Oct-2011	SL-005-SA3-SB-4.0-5.0	6437218	N	METHOD	1613B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5	6437220	N	METHOD	1613B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MS	6437221	MS	METHOD	1613B	III
13-Oct-2011	SL-089-SA7-SB-3.5-4.5MSD	6437222	MSD	METHOD	1613B	III
13-Oct-2011	DUP09-SA7-QC-101311	6437223	FD	METHOD	1613B	III
13-Oct-2011	EB-SA7-SB-101311	6437224	EB	METHOD	1613B	III
19-Oct-2011	SL-016-SA5DS-SB-4.0-5.0	6443500	N	METHOD	1613B	III
19-Oct-2011	SL-143-SA7-SB-5.0-6.0	6443501	N	METHOD	1613B	III
19-Oct-2011	SL-143-SA7-SB-9.0-10.0	6443502	N	METHOD	1613B	III
19-Oct-2011	EB-SA7-SB-101911	6443505	EB	METHOD	1613B	III
19-Oct-2011	SL-142-SA7-SB-2.0-3.0	6443503	N	METHOD	1613B	III
19-Oct-2011	SL-142-SA7-SB-7.0-8.0	6443504	N	METHOD	1613B	III
20-Oct-2011	SL-023-SA7-SB-2.0-3.0	6445474	N	METHOD	1613B	III
20-Oct-2011	SL-040-SA5DS-SB-9.0-10.0	6445481	N	METHOD	1613B	III
20-Oct-2011	SL-040-SA5DS-SB-4.0-5.0	6445480	N	METHOD	1613B	III
20-Oct-2011	SL-060-SA7-SB-2.5-3.5	6445475	N	METHOD	1613B	III
20-Oct-2011	SL-026-SA5DS-SB-9.0-10.0	6445479	N	METHOD	1613B	III
20-Oct-2011	SL-026-SA5DS-SB-4.0-5.0	6445478	N	METHOD	1613B	III
20-Oct-2011	SL-148-SA7-SB-0.0-1.0	6445477	N	METHOD	1613B	III
20-Oct-2011	SL-016-SA8S-SB-4.0-5.0	6445482	N	METHOD	1613B	III
20-Oct-2011	SL-069-SA7-SB-2.5-3.5	6445476	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: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA7-SB-101311 *Collected:* 10/13/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.09	JB	0.265	MDL	9.99	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.11	JB	0.110	MDL	9.99	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.292	JBQ	0.120	MDL	9.99	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.423	JB	0.143	MDL	9.99	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.265	JQ	0.224	MDL	9.99	PQL	pg/L	J	Z
1,2,3,6,7,8-HXCDF	0.458	JBQ	0.145	MDL	9.99	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.416	JB	0.124	MDL	9.99	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.419	JBQ	0.128	MDL	9.99	PQL	pg/L	U	B
OCDD	6.33	JB	0.232	MDL	20.0	PQL	pg/L	U	B
OCDF	1.70	JB	0.276	MDL	20.0	PQL	pg/L	U	B

Sample ID: EB-SA7-SB-101911 *Collected:* 10/19/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.05	JB	0.351	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.50	JB	0.182	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.479	JBQ	0.214	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.302	JBQ	0.192	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.623	JBQ	0.327	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.460	JBQ	0.179	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.805	JBQ	0.319	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.426	JBQ	0.186	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.543	JBQ	0.217	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.536	JBQ	0.171	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.801	JBQ	0.196	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDF	0.315	JBQ	0.266	MDL	2.12	PQL	pg/L	U	B
OCDD	6.70	JB	0.371	MDL	21.2	PQL	pg/L	U	B
OCDF	2.49	JBQ	0.505	MDL	21.2	PQL	pg/L	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP09-SA7-QC-101311 ***Collected:*** 10/13/2011 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
1,2,3,4,6,7,8-HPCDD	4.45	JB	0.0370	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.789	JB	0.0183	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JB	0.0305	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0729	JBQ	0.0306	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.244	JQ	0.0247	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.188	JBQ	0.0309	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0971	JB	0.0226	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.150	JBQ	0.0293	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0436	JB	0.0268	MDL	5.59	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0835	JBQ	0.0298	MDL	5.59	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0785	JBQ	0.0201	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.153	JBQ	0.0212	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JBQ	0.0202	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0366	J	0.0332	MDL	1.12	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0570	JQ	0.0293	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	2.24	JB	0.0450	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-005-SA3-SB-4.0-5.0 ***Collected:*** 10/13/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.646	JB	0.0317	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JB	0.0149	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0417	JB	0.0234	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0405	JQ	0.0171	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0467	JBQ	0.0239	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0484	JBQ	0.0152	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0620	JBQ	0.0241	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0330	JBQ	0.0324	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0490	JBQ	0.0169	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0386	JBQ	0.0149	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0572	JBQ	0.0164	MDL	5.30	PQL	ng/Kg	U	B
OCDD	4.27	JB	0.0337	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.392	JBQ	0.0494	MDL	10.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-005-SA3-SB-7.5-8.5 *Collected:* 10/13/2011 11:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.266	JBQ	0.0244	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.0113	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0359	JBQ	0.0198	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0240	JBQ	0.0197	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0469	J	0.0153	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0412	JB	0.0200	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0195	JBQ	0.0120	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0215	JBQ	0.0205	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0322	JBQ	0.0163	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0472	JBQ	0.0304	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0460	JBQ	0.0132	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0682	JBQ	0.0149	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0285	JQ	0.0261	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	0.630	JB	0.0266	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.159	JBQ	0.0472	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-016-SA5DS-SB-4.0-5.0 *Collected:* 10/19/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.264	JB	0.0239	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.145	JB	0.0122	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0397	JBQ	0.0237	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0316	J	0.0176	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0801	JB	0.0252	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0409	JBQ	0.0146	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.161	JBQ	0.0234	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.183	JB	0.0203	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0435	JB	0.0276	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0355	JB	0.0131	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0493	JBQ	0.0152	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0479	JB	0.0143	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0249	JQ	0.0244	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	0.552	JBQ	0.0415	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.164	JBQ	0.0467	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-016-SA8S-SB-4.0-5.0 *Collected:* 10/20/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.314	JBQ	0.0243	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0831	JB	0.0163	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0335	JB	0.0266	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0230	JBQ	0.0221	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0636	J	0.0231	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0383	JBQ	0.0184	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0393	JBQ	0.0214	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0410	JB	0.0195	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0529	JBQ	0.0164	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0377	JBQ	0.0146	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.134	JBQ	0.0173	MDL	5.44	PQL	ng/Kg	U	B
OCDD	0.618	JB	0.0498	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.140	JB	0.0594	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-023-SA7-SB-2.0-3.0 *Collected:* 10/20/2011 9:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.55	JB	0.0314	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.653	JB	0.0166	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0434	JB	0.0277	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0513	JBQ	0.0261	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.462	J	0.0289	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.199	JB	0.0265	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0703	JB	0.0245	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.310	JBQ	0.0252	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.137	JB	0.0298	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0570	JBQ	0.0274	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0624	JBQ	0.0233	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0988	JB	0.0218	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.176	JB	0.0237	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0490	JQ	0.0359	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.53	JB	0.0413	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-026-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 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	0.555	JBQ	0.0239	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JB	0.0104	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0221	JBQ	0.0203	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0419	JBQ	0.0190	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0647	JQ	0.0172	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0749	JBQ	0.0193	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0349	JBQ	0.0127	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0559	JBQ	0.0188	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0230	JB	0.0161	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0656	JB	0.0118	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0370	JBQ	0.0116	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.123	JB	0.0132	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0251	JQ	0.0202	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	3.60	JB	0.0293	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.395	JB	0.0424	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.263	JB	0.0257	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0992	JB	0.00999	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0417	JBQ	0.0218	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0689	JQ	0.0193	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0734	JB	0.0199	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0426	JBQ	0.0150	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0487	JBQ	0.0199	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0855	JB	0.0201	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JB	0.0273	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JB	0.0144	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0297	JBQ	0.0145	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0537	JQ	0.0319	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0563	J	0.0241	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	0.667	JB	0.0381	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.210	JB	0.0469	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-040-SA5DS-SB-4.0-5.0 *Collected:* 10/20/2011 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-HPCDD	0.186	JB	0.0256	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JBQ	0.0122	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	JB	0.0205	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0279	JB	0.0184	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0409	JQ	0.0217	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0420	JB	0.0181	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0414	JBQ	0.0162	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0702	JBQ	0.0179	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0552	JB	0.0185	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0860	JBQ	0.0312	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0733	JB	0.0158	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0383	JB	0.0138	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0902	JBQ	0.0173	MDL	5.40	PQL	ng/Kg	U	B
OCDD	0.582	JB	0.0418	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0579	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-040-SA5DS-SB-9.0-10.0 *Collected:* 10/20/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.245	JB	0.0226	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0813	JB	0.0102	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0318	JBQ	0.0194	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0471	JQ	0.0153	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0363	JB	0.0176	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0142	JBQ	0.0123	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JB	0.0171	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JBQ	0.0147	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0347	JBQ	0.0261	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0345	JBQ	0.0108	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0293	JB	0.0138	MDL	5.34	PQL	ng/Kg	U	B
OCDD	0.613	JB	0.0396	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.190	JB	0.0460	MDL	10.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-060-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.283	JB	0.0176	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.138	JB	0.00942	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0237	JBQ	0.0171	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0458	J	0.0119	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0201	JBQ	0.0165	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0198	JB	0.0169	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0231	JBQ	0.0114	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0300	JBQ	0.00848	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0512	JBQ	0.00942	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.58	JB	0.0248	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.200	JBQ	0.0326	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-069-SA7-SB-2.5-3.5 *Collected:* 10/20/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.429	JB	0.0198	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.0118	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0242	JB	0.0228	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0475	J	0.0145	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0460	JBQ	0.0179	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0469	JBQ	0.0122	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0442	JBQ	0.0174	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0420	JBQ	0.0166	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0351	JB	0.0121	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0564	JBQ	0.0123	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0799	JBQ	0.0125	MDL	5.04	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0271	JQ	0.0243	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0260	JQ	0.0204	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	2.28	JB	0.0297	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.210	JBQ	0.0347	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-089-SA7-SB-3.5-4.5 *Collected:* 10/13/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.64	JB	0.0430	MDL	5.60	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory:** LL

EDD Filename: PrepDX150_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA7-SB-3.5-4.5 ***Collected:*** 10/13/2011 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	0.936	JB	0.0189	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0695	JBQ	0.0400	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JB	0.0303	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.328	J	0.0264	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.253	JB	0.0300	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0847	JB	0.0212	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.119	JBQ	0.0283	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0800	JB	0.0294	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0421	JBQ	0.0282	MDL	5.60	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0524	JBQ	0.0194	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.146	JBQ	0.0220	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.196	JBQ	0.0212	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0332	U	0.0332	MDL	1.12	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0780	JQ	0.0325	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	2.37	JB	0.0520	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA7-SB-2.0-3.0 ***Collected:*** 10/19/2011 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	3.16	JB	0.0300	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.633	JB	0.0126	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0417	JB	0.0237	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0851	JB	0.0249	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.411	J	0.0241	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.182	JB	0.0241	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0818	JB	0.0190	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.221	JB	0.0250	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0246	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.135	JB	0.0271	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.0200	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0887	JB	0.0201	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0207	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0615	J	0.0271	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.155	J	0.0362	MDL	1.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-142-SA7-SB-2.0-3.0 *Collected:* 10/19/2011 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
OCDF	1.31	JB	0.0395	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA7-SB-7.0-8.0 *Collected:* 10/19/2011 3:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.45	JB	0.0172	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.147	JBQ	0.0305	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.188	JB	0.0297	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.437	J	0.0303	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.539	JB	0.0304	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.177	JB	0.0248	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.415	JB	0.0298	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0302	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0919	JB	0.0301	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0278	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.194	JB	0.0229	MDL	5.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.336	JQ	0.0571	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	3.44	JB	0.0396	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.709	JB	0.0251	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JB	0.0130	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0688	JBQ	0.0245	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0481	JB	0.0209	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.129	JQ	0.0170	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0925	JBQ	0.0216	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0594	JBQ	0.0135	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0778	JBQ	0.0210	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0576	JBQ	0.0188	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0776	JBQ	0.0274	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JBQ	0.0152	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0785	JBQ	0.0137	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.120	JB	0.0163	MDL	5.30	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: PrepDX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-143-SA7-SB-5.0-6.0 *Collected:* 10/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0429	JQ	0.0256	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	4.51	JB	0.0447	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.298	JBQ	0.0449	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-143-SA7-SB-9.0-10.0 *Collected:* 10/19/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.354	JB	0.0222	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.217	JB	0.0110	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0633	JBQ	0.0203	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0456	JBQ	0.0211	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0821	J	0.0171	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.107	JBQ	0.0215	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0777	JB	0.0137	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JB	0.0196	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0508	JBQ	0.0174	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.150	JBQ	0.0236	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JB	0.0123	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0847	JB	0.0143	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.158	JBQ	0.0131	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0635	JQ	0.0309	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.100	JQ	0.0217	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	1.37	JBQ	0.0294	MDL	10.1	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0433	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.84	JB	0.0293	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.437	JB	0.0158	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0671	JB	0.0253	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0500	JBQ	0.0238	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.110	J	0.0229	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.111	JB	0.0242	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0770	JBQ	0.0180	MDL	5.22	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: PrepDX150_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-148-SA7-SB-0.0-1.0 *Collected:* 10/20/2011 2:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.128	JB	0.0244	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0441	JB	0.0209	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JBQ	0.0268	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0730	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0610	JB	0.0152	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.108	JB	0.0167	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0365	JQ	0.0286	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.833	JB	0.0442	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: PrepDX150_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX150

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2920B371632	10/21/2011 4:32:00 PM	1,2,3,4,6,7,8-HPCDD	2.75 pg/L	EB-SA7-SB-101311
		1,2,3,4,6,7,8-HPCDF	2.04 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.351 pg/L	
		1,2,3,4,7,8-HXCDF	0.536 pg/L	
		1,2,3,6,7,8-HXCDF	0.592 pg/L	
		1,2,3,7,8,9-HXCDD	0.623 pg/L	
		1,2,3,7,8,9-HXCDF	0.484 pg/L	
		1,2,3,7,8-PECDD	0.541 pg/L	
		1,2,3,7,8-PECDF	0.414 pg/L	
		2,3,4,6,7,8-HXCDF	0.606 pg/L	
		2,3,4,7,8-PECDF	0.934 pg/L	
		OCDD	5.09 pg/L	
		OCDF	1.52 pg/L	
BLK2970B372330	10/25/2011 11:30:00 PM	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	EB-SA7-SB-101911
		1,2,3,4,6,7,8-HPCDF	1.54 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.445 pg/L	
		1,2,3,4,7,8-HXCDF	0.588 pg/L	
		1,2,3,6,7,8-HXCDD	0.372 pg/L	
		1,2,3,6,7,8-HXCDF	0.410 pg/L	
		1,2,3,7,8,9-HXCDD	0.989 pg/L	
		1,2,3,7,8,9-HXCDF	0.976 pg/L	
		1,2,3,7,8-PECDF	0.262 pg/L	
		2,3,4,6,7,8-HXCDF	0.342 pg/L	
		2,3,4,7,8-PECDF	0.327 pg/L	
		2,3,7,8-TCDF	0.339 pg/L	
		OCDD	6.96 pg/L	
		OCDF	2.32 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
EB-SA7-SB-101311(RES)	1,2,3,4,6,7,8-HPCDD	3.09 pg/L	3.09U pg/L
EB-SA7-SB-101311(RES)	1,2,3,4,6,7,8-HPCDF	2.11 pg/L	2.11U pg/L
EB-SA7-SB-101311(RES)	1,2,3,4,7,8,9-HPCDF	0.292 pg/L	0.292U pg/L
EB-SA7-SB-101311(RES)	1,2,3,4,7,8-HXCDF	0.423 pg/L	0.423U pg/L
EB-SA7-SB-101311(RES)	1,2,3,6,7,8-HXCDF	0.458 pg/L	0.458U pg/L
EB-SA7-SB-101311(RES)	2,3,4,6,7,8-HXCDF	0.416 pg/L	0.416U pg/L
EB-SA7-SB-101311(RES)	2,3,4,7,8-PECDF	0.419 pg/L	0.419U pg/L
EB-SA7-SB-101311(RES)	OCDD	6.33 pg/L	6.33U pg/L
EB-SA7-SB-101311(RES)	OCDF	1.70 pg/L	1.70U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,6,7,8-HPCDD	3.05 pg/L	3.05U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,6,7,8-HPCDF	2.50 pg/L	2.50U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,7,8,9-HPCDF	0.479 pg/L	0.479U pg/L
EB-SA7-SB-101911(RES)	1,2,3,4,7,8-HXCDF	0.302 pg/L	0.302U pg/L
EB-SA7-SB-101911(RES)	1,2,3,6,7,8-HXCDD	0.623 pg/L	0.623U pg/L
EB-SA7-SB-101911(RES)	1,2,3,6,7,8-HXCDF	0.460 pg/L	0.460U pg/L
EB-SA7-SB-101911(RES)	1,2,3,7,8,9-HXCDD	0.805 pg/L	0.805U pg/L
EB-SA7-SB-101911(RES)	1,2,3,7,8,9-HXCDF	0.426 pg/L	0.426U pg/L
EB-SA7-SB-101911(RES)	1,2,3,7,8-PECDF	0.543 pg/L	0.543U pg/L
EB-SA7-SB-101911(RES)	2,3,4,6,7,8-HXCDF	0.536 pg/L	0.536U pg/L
EB-SA7-SB-101911(RES)	2,3,4,7,8-PECDF	0.801 pg/L	0.801U pg/L
EB-SA7-SB-101911(RES)	2,3,7,8-TCDF	0.315 pg/L	0.315U pg/L
EB-SA7-SB-101911(RES)	OCDD	6.70 pg/L	6.70U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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
EB-SA7-SB-101911(RES)	OCDF	2.49 pg/L	2.49U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3000B371229	10/29/2011 12:29:00 PM	1,2,3,4,6,7,8-HPCDD	0.295 ng/Kg	DUP09-SA7-QC-101311
		1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	SL-005-SA3-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0489 ng/Kg	SL-005-SA3-SB-7.5-8.5
		1,2,3,4,7,8-HxCDD	0.0345 ng/Kg	SL-016-SA5DS-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0438 ng/Kg	SL-016-SA8S-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0512 ng/Kg	SL-023-SA7-SB-2.0-3.0
		1,2,3,7,8,9-HXCDD	0.0427 ng/Kg	SL-026-SA5DS-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0857 ng/Kg	SL-026-SA5DS-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0804 ng/Kg	SL-040-SA5DS-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0458 ng/Kg	SL-040-SA5DS-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0555 ng/Kg	SL-060-SA7-SB-2.5-3.5
		2,3,4,7,8-PECDF	0.0744 ng/Kg	SL-069-SA7-SB-2.5-3.5
		OCDD	0.493 ng/Kg	SL-089-SA7-SB-3.5-4.5
		OCDF	0.188 ng/Kg	SL-142-SA7-SB-2.0-3.0
				SL-142-SA7-SB-7.0-8.0
				SL-143-SA7-SB-5.0-6.0
				SL-143-SA7-SB-9.0-10.0
				SL-148-SA7-SB-0.0-1.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA7-QC-101311(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,4,7,8-HxCDD	0.0729 ng/Kg	0.0729U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,6,7,8-HXCDD	0.188 ng/Kg	0.188U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,6,7,8-HXCDF	0.0971 ng/Kg	0.0971U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8,9-HXCDD	0.150 ng/Kg	0.150U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8,9-HXCDF	0.0436 ng/Kg	0.0436U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8-PECDD	0.0835 ng/Kg	0.0835U ng/Kg
DUP09-SA7-QC-101311(RES)	1,2,3,7,8-PECDF	0.0785 ng/Kg	0.0785U ng/Kg
DUP09-SA7-QC-101311(RES)	2,3,4,6,7,8-HXCDF	0.153 ng/Kg	0.153U ng/Kg
DUP09-SA7-QC-101311(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.646 ng/Kg	0.646U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0467 ng/Kg	0.0467U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0484 ng/Kg	0.0484U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0620 ng/Kg	0.0620U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0330 ng/Kg	0.0330U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0490 ng/Kg	0.0490U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **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-005-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-005-SA3-SB-4.0-5.0(RES)	OCDF	0.392 ng/Kg	0.392U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.266 ng/Kg	0.266U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0240 ng/Kg	0.0240U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0195 ng/Kg	0.0195U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0215 ng/Kg	0.0215U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0472 ng/Kg	0.0472U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	OCDD	0.630 ng/Kg	0.630U ng/Kg
SL-005-SA3-SB-7.5-8.5(RES)	OCDF	0.159 ng/Kg	0.159U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.264 ng/Kg	0.264U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.161 ng/Kg	0.161U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.183 ng/Kg	0.183U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0435 ng/Kg	0.0435U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0355 ng/Kg	0.0355U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0479 ng/Kg	0.0479U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	OCDD	0.552 ng/Kg	0.552U ng/Kg
SL-016-SA5DS-SB-4.0-5.0(RES)	OCDF	0.164 ng/Kg	0.164U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.314 ng/Kg	0.314U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0230 ng/Kg	0.0230U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.134 ng/Kg	0.134U ng/Kg
SL-016-SA8S-SB-4.0-5.0(RES)	OCDD	0.618 ng/Kg	0.618U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **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-016-SA8S-SB-4.0-5.0(RES)	OCDF	0.140 ng/Kg	0.140U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0434 ng/Kg	0.0434U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0513 ng/Kg	0.0513U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.199 ng/Kg	0.199U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0624 ng/Kg	0.0624U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-023-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.176 ng/Kg	0.176U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0349 ng/Kg	0.0349U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0559 ng/Kg	0.0559U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0230 ng/Kg	0.0230U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-026-SA5DS-SB-4.0-5.0(RES)	OCDF	0.395 ng/Kg	0.395U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.263 ng/Kg	0.263U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0992 ng/Kg	0.0992U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0734 ng/Kg	0.0734U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0487 ng/Kg	0.0487U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0855 ng/Kg	0.0855U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0297 ng/Kg	0.0297U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	OCDD	0.667 ng/Kg	0.667U ng/Kg
SL-026-SA5DS-SB-9.0-10.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.186 ng/Kg	0.186U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0279 ng/Kg	0.0279U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0420 ng/Kg	0.0420U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 | Laboratory: LL

EDD Filename: DX150_v2 | 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-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0702 ng/Kg	0.0702U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0860 ng/Kg	0.0860U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	OCDD	0.582 ng/Kg	0.582U ng/Kg
SL-040-SA5DS-SB-4.0-5.0(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.245 ng/Kg	0.245U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0813 ng/Kg	0.0813U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0363 ng/Kg	0.0363U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0142 ng/Kg	0.0142U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0347 ng/Kg	0.0347U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	OCDD	0.613 ng/Kg	0.613U ng/Kg
SL-040-SA5DS-SB-9.0-10.0(RES)	OCDF	0.190 ng/Kg	0.190U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	0.283U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.138 ng/Kg	0.138U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0237 ng/Kg	0.0237U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0201 ng/Kg	0.0201U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0198 ng/Kg	0.0198U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0512 ng/Kg	0.0512U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	OCDD	1.58 ng/Kg	1.58U ng/Kg
SL-060-SA7-SB-2.5-3.5(RES)	OCDF	0.200 ng/Kg	0.200U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.429 ng/Kg	0.429U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0242 ng/Kg	0.0242U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0460 ng/Kg	0.0460U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0442 ng/Kg	0.0442U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0564 ng/Kg	0.0564U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0799 ng/Kg	0.0799U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **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-069-SA7-SB-2.5-3.5(RES)	OCDD	2.28 ng/Kg	2.28U ng/Kg
SL-069-SA7-SB-2.5-3.5(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.119 ng/Kg	0.119U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0800 ng/Kg	0.0800U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0421 ng/Kg	0.0421U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-089-SA7-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.196 ng/Kg	0.196U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.633 ng/Kg	0.633U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0851 ng/Kg	0.0851U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.182 ng/Kg	0.182U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0818 ng/Kg	0.0818U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.135 ng/Kg	0.135U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-142-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.0919 ng/Kg	0.0919U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.225 ng/Kg	0.225U ng/Kg
SL-142-SA7-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,6,7,8-HPCDD	0.709 ng/Kg	0.709U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,4,7,8-HxCDD	0.0481 ng/Kg	0.0481U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,6,7,8-HXCDD	0.0925 ng/Kg	0.0925U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8,9-HXCDD	0.0778 ng/Kg	0.0778U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8,9-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8-PECDD	0.0776 ng/Kg	0.0776U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	2,3,4,6,7,8-HXCDF	0.0785 ng/Kg	0.0785U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-143-SA7-SB-5.0-6.0(RES)	OCDF	0.298 ng/Kg	0.298U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX150 | Laboratory: LL

EDD Filename: DX150_v2 | 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-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.354 ng/Kg	0.354U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.217 ng/Kg	0.217U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0633 ng/Kg	0.0633U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0456 ng/Kg	0.0456U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.158 ng/Kg	0.158U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-143-SA7-SB-9.0-10.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,6-HPCDF	0.437 ng/Kg	0.437U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0671 ng/Kg	0.0671U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.0500 ng/Kg	0.0500U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDF	0.0770 ng/Kg	0.0770U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDF	0.0730 ng/Kg	0.0730U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-148-SA7-SB-0.0-1.0(RES)	OCDF	0.833 ng/Kg	0.833U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: DX150_v2 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
MOISTURE	11.8	10.8	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA7-SB-3.5-4.5	DUP09-SA7-QC-101311			
1,2,3,4,6,7,8-HPCDD	4.64	4.45	4	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.936	0.789	17	50.00	
1,2,3,4,7,8,9-HPCDF	0.0695	0.111	46	50.00	
1,2,3,4,7,8-HxCDD	0.0699	0.0729	4	50.00	
1,2,3,4,7,8-HXCDF	0.328	0.244	29	50.00	
1,2,3,6,7,8-HXCDD	0.253	0.188	29	50.00	
1,2,3,6,7,8-HXCDF	0.0847	0.0971	14	50.00	
1,2,3,7,8,9-HXCDD	0.119	0.150	23	50.00	
1,2,3,7,8-PECDF	0.0524	0.0785	40	50.00	
2,3,4,6,7,8-HXCDF	0.146	0.153	5	50.00	
2,3,4,7,8-PECDF	0.196	0.128	42	50.00	
2,3,7,8-TCDF	0.0780	0.0570	31	50.00	
OCDD	44.4	39.5	12	50.00	
OCDF	2.37	2.24	6	50.00	
1,2,3,7,8,9-HXCDF	0.0800	0.0436	59	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDD	0.0421	0.0835	66	50.00	
2,3,7,8-TCDD	1.12 U	0.0366	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 Laboratory: LL

EDD Filename: DX150_v2 eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA7-SB-101311	1,2,3,4,6,7,8-HPCDD	JB	3.09	9.99	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.11	9.99	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.292	9.99	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.423	9.99	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.265	9.99	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.458	9.99	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.416	9.99	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.419	9.99	PQL	pg/L	
	OCDD	JB	6.33	20.0	PQL	pg/L	
	OCDF	JB	1.70	20.0	PQL	pg/L	
EB-SA7-SB-101911	1,2,3,4,6,7,8-HPCDD	JB	3.05	10.6	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.50	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.479	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.302	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.623	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.460	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.805	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.426	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.543	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.536	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.801	10.6	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.315	2.12	PQL	pg/L	
	OCDD	JB	6.70	21.2	PQL	pg/L	
	OCDF	JBQ	2.49	21.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA7-QC-101311	1,2,3,4,6,7,8-HPCDD	JB	4.45	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.789	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.111	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0729	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.244	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.188	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0971	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.150	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0436	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0835	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0785	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.153	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.128	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0366	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0570	1.12	PQL	ng/Kg	
	OCDF	JB	2.24	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.646	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.207	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0417	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0405	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0467	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0484	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0620	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0330	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0490	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0386	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0572	5.30	PQL	ng/Kg	
	OCDD	JB	4.27	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.392	10.6	PQL	ng/Kg	
SL-005-SA3-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.266	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0359	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0240	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0469	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0412	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0195	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0215	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0322	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0472	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0460	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0682	5.80	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0285	1.16	PQL	ng/Kg	
	OCDD	JB	0.630	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.159	11.6	PQL	ng/Kg	
SL-016-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.264	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.145	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0397	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0316	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0801	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0409	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.161	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.183	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0435	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0355	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0493	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0479	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0249	1.08	PQL	ng/Kg	
	OCDD	JBQ	0.552	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.164	10.8	PQL	ng/Kg	
SL-016-SA8S-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.314	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0831	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0335	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0230	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0636	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0383	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0393	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0410	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0529	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0377	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.134	5.44	PQL	ng/Kg	
	OCDD	JB	0.618	10.9	PQL	ng/Kg	
	OCDF	JB	0.140	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	2.55	5.15	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.653	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0434	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0513	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.462	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0703	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.310	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.137	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0570	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0624	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0988	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.176	5.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0490	1.03	PQL	ng/Kg	
	OCDF	JB	1.53	10.3	PQL	ng/Kg	
SL-026-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.555	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.191	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0221	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0419	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0647	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0749	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0349	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0559	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0230	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0656	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0370	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.123	5.27	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0251	1.05	PQL	ng/Kg	
	OCDD	JB	3.60	10.5	PQL	ng/Kg	
	OCDF	JB	0.395	10.5	PQL	ng/Kg	
SL-026-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.263	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0992	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0417	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0689	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0734	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0426	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0487	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0855	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.110	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0297	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0537	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0563	1.08	PQL	ng/Kg	
	OCDD	JB	0.667	10.8	PQL	ng/Kg	
	OCDF	JB	0.210	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.186	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.135	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0399	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0279	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0409	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0420	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0414	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0702	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0552	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0860	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0733	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0383	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0902	5.40	PQL	ng/Kg	
	OCDD	JB	0.582	10.8	PQL	ng/Kg	
	OCDF	JB	0.171	10.8	PQL	ng/Kg	
SL-040-SA5DS-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.245	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0813	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0318	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0471	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0363	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0142	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0672	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.118	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0347	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0345	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0293	5.34	PQL	ng/Kg	
	OCDD	JB	0.613	10.7	PQL	ng/Kg	
	OCDF	JB	0.190	10.7	PQL	ng/Kg	
SL-060-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.283	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.138	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0237	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0458	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0201	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0198	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0231	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0300	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0512	5.21	PQL	ng/Kg	
	OCDD	JB	1.58	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.200	10.4	PQL	ng/Kg	
SL-069-SA7-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.429	5.04	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0242	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0475	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0460	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0469	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0442	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0420	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0351	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0564	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0799	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0271	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0260	1.01	PQL	ng/Kg	
	OCDD	JB	2.28	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.210	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 **Laboratory: LL**

EDD Filename: DX150_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA7-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	4.64	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.936	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0695	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0699	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.328	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.253	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0847	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.119	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0800	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0421	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0524	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.146	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.196	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0780	1.12	PQL	ng/Kg	
	OCDF	JB	2.37	11.2	PQL	ng/Kg	
SL-142-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	3.16	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.633	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0417	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0851	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.411	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.182	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0818	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.221	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.167	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.135	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0887	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0615	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.155	1.02	PQL	ng/Kg	
	OCDF	JB	1.31	10.2	PQL	ng/Kg	
SL-142-SA7-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDF	JB	1.45	5.20	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.147	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.188	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.437	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.539	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.177	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.415	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.126	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0919	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.225	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.194	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.336	1.04	PQL	ng/Kg	
	OCDF	JB	3.44	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX150 | Laboratory: LL

EDD Filename: DX150_v2 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA7-SB-5.0-6.0	1,2,3,4,6,7,8-HPCDD	JB	0.709	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.191	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0688	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0481	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.129	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0925	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0594	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0778	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0576	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0776	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.103	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0785	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.120	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0429	1.06	PQL	ng/Kg	
	OCDD	JB	4.51	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.298	10.6	PQL	ng/Kg	
SL-143-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.354	5.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.217	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0633	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0456	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0821	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.107	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0777	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.104	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0508	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.150	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0847	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.158	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0635	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.100	1.01	PQL	ng/Kg	
	OCDD	JBQ	1.37	10.1	PQL	ng/Kg	
	OCDF	JB	0.304	10.1	PQL	ng/Kg	
SL-148-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	1.84	5.22	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.437	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0671	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0500	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.110	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0770	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.128	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0441	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0351	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0730	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0610	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.108	5.22	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0365	1.04	PQL	ng/Kg	
	OCDF	JB	0.833	10.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX154

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-Nov-2011	SL-048-SA7-SB-4.0-5.0	6460121	N	METHOD	1613B	III
02-Nov-2011	SL-048-SA7-SB-9.0-10.0	6460122	N	METHOD	1613B	III
02-Nov-2011	SL-161-SA7-SB-4.0-5.0	6460123	N	METHOD	1613B	III
03-Nov-2011	SL-108-SA7-SB-2.9-3.9	6460124	N	METHOD	1613B	III
03-Nov-2011	SL-128-SA7-SB-4.0-5.0	6460125	N	METHOD	1613B	III
03-Nov-2011	SL-128-SA7-SB-9.0-10.0	6460126	N	METHOD	1613B	III
03-Nov-2011	SL-171-SA7-SB-4.0-5.0	6460127	N	METHOD	1613B	III
03-Nov-2011	SL-171-SA7-SB-9.0-10.0	6460128	N	METHOD	1613B	III
03-Nov-2011	EB-SA7-SB-110311	6460129	EB	METHOD	1613B	III
07-Nov-2011	SL-001-SA3-SB-2.0-3.0	6462625	N	METHOD	1613B	III
07-Nov-2011	SL-010-SA3-SB-3.0-4.0	6462629	N	METHOD	1613B	III
07-Nov-2011	SL-013-SA3-SB-0.5-1.5	6462628	N	METHOD	1613B	III
07-Nov-2011	SL-004-SA3-SB-4.0-5.0	6462626	N	METHOD	1613B	III
07-Nov-2011	SL-004-SA3-SB-7.0-8.0	6462627	N	METHOD	1613B	III
08-Nov-2011	SL-010-SA5DS-SB-2.0-3.0	6463914	N	METHOD	1613B	III
08-Nov-2011	SL-019-SA5DS-SB-2.0-3.0	6463915	N	METHOD	1613B	III
09-Nov-2011	SL-021-SA5DS-SB-2.0-3.0	6465439	N	METHOD	1613B	III
09-Nov-2011	SL-022-SA5DS-SB-4.0-5.0	6465440	N	METHOD	1613B	III
09-Nov-2011	SL-005-SA5DS-SB-1.0-2.0	6465435	N	METHOD	1613B	III
09-Nov-2011	SL-006-SA5DS-SS-0.0-0.5	6465436	N	METHOD	1613B	III
09-Nov-2011	SL-006-SA5DS-SS-0.0-0.5MS	6465437	MS	METHOD	1613B	III
09-Nov-2011	DUP04-SA5DS-QC-110911	6465441	FD	METHOD	1613B	III
10-Nov-2011	EB-SA5DS-SB-111011	6466891	EB	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: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA5DS-SB-111011 *Collected:* 11/10/2011 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.71	JB	0.433	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	3.74	JB	0.204	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.226	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.739	JBQ	0.238	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.698	JB	0.328	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.724	JBQ	0.226	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.297	JB	0.251	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.360	JBQ	0.209	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.733	JB	0.215	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.392	JBQ	0.181	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDF	0.363	JQ	0.329	MDL	2.01	PQL	pg/L	J	Z
OCDD	8.05	JBQ	0.431	MDL	20.1	PQL	pg/L	U	B
OCDF	3.11	JB	0.545	MDL	20.1	PQL	pg/L	U	B

Sample ID: EB-SA7-SB-110311 *Collected:* 11/3/2011 3:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.43	JBQ	0.204	MDL	9.84	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.14	JBQ	0.0852	MDL	9.84	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.222	JB	0.102	MDL	9.84	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.248	JBQ	0.106	MDL	9.84	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.219	JBQ	0.169	MDL	9.84	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.262	JQ	0.103	MDL	9.84	PQL	pg/L	J	Z
1,2,3,7,8,9-HXCDD	0.285	JB	0.169	MDL	9.84	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.147	JBQ	0.105	MDL	9.84	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.151	JBQ	0.104	MDL	9.84	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.474	JB	0.101	MDL	9.84	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.343	JBQ	0.0971	MDL	9.84	PQL	pg/L	U	B
2,3,7,8-TCDF	0.165	JBQ	0.138	MDL	1.97	PQL	pg/L	U	B
OCDD	4.20	JBQ	0.248	MDL	19.7	PQL	pg/L	U	B
OCDF	1.31	JBQ	0.276	MDL	19.7	PQL	pg/L	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP04-SA5DS-QC-110911 *Collected:* 11/9/2011 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
1,2,3,4,6,7,8-HPCDD	4.28	JB	0.0345	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.991	JB	0.0167	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.117	JBQ	0.0245	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JBQ	0.0317	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.321	JB	0.0243	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.974	JB	0.0339	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.217	JB	0.0226	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.25	JB	0.0321	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.467	JBQ	0.0274	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.209	JB	0.0385	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.407	JB	0.0305	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.230	JB	0.0230	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.503	JB	0.0303	MDL	5.52	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0565	JQ	0.0335	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0637	U	0.0637	MDL	1.10	PQL	ng/Kg	UJ	FD
OCDF	1.85	JB	0.0275	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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-HPCDD	1.37	JB	0.0285	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.278	JBQ	0.0116	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0712	JBQ	0.0156	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	J	0.0297	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.211	JBQ	0.0208	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.277	JB	0.0310	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.211	JBQ	0.0189	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.449	J	0.0289	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JBQ	0.0224	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.293	J	0.0323	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.362	JB	0.0157	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.143	JBQ	0.0205	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.307	JB	0.0144	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.100	JQ	0.0304	MDL	1.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA3-SB-2.0-3.0 *Collected:* 11/7/2011 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
2,3,7,8-TCDF	0.135	J	0.0262	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	8.03	JB	0.0248	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.562	JB	0.0300	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-004-SA3-SB-4.0-5.0 *Collected:* 11/7/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.534	JB	0.0242	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.220	JB	0.0135	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0265	JBQ	0.0208	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0349	JB	0.0177	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.162	JBQ	0.0262	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0778	JB	0.0165	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.258	J	0.0263	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0782	JB	0.0177	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0562	J	0.0303	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0640	JBQ	0.0155	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0594	JB	0.0152	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0563	JBQ	0.0156	MDL	5.19	PQL	ng/Kg	U	B
OCDD	3.06	JB	0.0223	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.391	JB	0.0409	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.653	JB	0.0211	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.362	JB	0.0117	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0186	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0756	JBQ	0.0191	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	3.33	JB	0.0208	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.773	JB	0.0163	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.97	J	0.0207	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.300	JB	0.0198	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0862	JBQ	0.0130	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0969	JB	0.0157	MDL	5.28	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-004-SA3-SB-7.0-8.0 *Collected:* 11/7/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0899	JB	0.0130	MDL	5.28	PQL	ng/Kg	U	B
OCDD	2.85	JB	0.0206	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.462	JB	0.0301	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-005-SA5DS-SB-1.0-2.0 *Collected:* 11/9/2011 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	0.880	JB	0.0189	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.278	JB	0.00919	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0280	JB	0.0137	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0358	JB	0.0197	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0655	JB	0.0156	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.257	JB	0.0202	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0526	JB	0.0136	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.424	JB	0.0207	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0403	JBQ	0.0248	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0745	JB	0.0122	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JBQ	0.0119	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0669	JB	0.0124	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0258	J	0.0243	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0475	J	0.0243	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	6.06	JB	0.0266	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.433	JB	0.0241	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-006-SA5DS-SS-0.0-0.5 *Collected:* 11/9/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.09	JB	0.0324	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.950	JB	0.0158	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0967	JB	0.0210	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.112	JB	0.0292	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.353	JBQ	0.0208	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.903	JB	0.0293	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JBQ	0.0187	MDL	5.52	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA5DS-SS-0.0-0.5 *Collected:* 11/9/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	1.32	JB	0.0282	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.501	JB	0.0212	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.185	JBQ	0.0337	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.293	JB	0.0260	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JBQ	0.0182	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.252	JB	0.0253	MDL	5.52	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0534	J	0.0271	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.124	J	0.0513	MDL	1.10	PQL	ng/Kg	J	Z, FD
OCDF	1.87	JB	0.0227	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-010-SA3-SB-3.0-4.0 *Collected:* 11/7/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.603	JB	0.0439	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.424	J	0.0505	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.63	JB	0.0716	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.01	JB	0.0494	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.71	JB	0.0630	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.747	J	0.0510	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.654	JB	0.0715	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.01	JB	0.0622	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.95	JB	0.0732	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.102	JQ	0.0616	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	6.07	JB	0.0391	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-010-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.414	JB	0.0252	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.364	JB	0.0129	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0431	JB	0.0214	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0300	JQ	0.0224	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0677	JB	0.0183	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.184	JB	0.0227	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0738	JB	0.0159	MDL	5.54	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.237	J	0.0241	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.222	JB	0.0184	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0832	JB	0.0127	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0747	JB	0.0153	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0688	JB	0.0130	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0274	JQ	0.0269	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.92	JB	0.0194	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.371	JBQ	0.0347	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-013-SA3-SB-0.5-1.5 *Collected:* 11/7/2011 1:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.333	JBQ	0.0413	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.153	JQ	0.0386	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.507	JB	0.0298	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.603	JB	0.0381	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.223	JB	0.0263	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.490	J	0.0368	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.219	JBQ	0.0320	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.112	JQ	0.0384	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.290	JB	0.0261	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.406	JB	0.0264	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.277	JBQ	0.0270	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.202	J	0.0498	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.388	JB	0.0192	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.273	JB	0.0114	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0392	JBQ	0.0181	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0219	J	0.0198	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0668	JB	0.0149	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0582	JBQ	0.0207	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0492	JB	0.0137	MDL	5.38	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-019-SA5DS-SB-2.0-3.0 *Collected:* 11/8/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.0841	J	0.0197	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0825	JB	0.0159	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	JQ	0.0228	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0240	JBQ	0.0111	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0786	JB	0.0131	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0868	JBQ	0.0110	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0281	JQ	0.0190	MDL	1.08	PQL	ng/Kg	U	B
OCDD	1.25	JB	0.0210	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.236	JB	0.0306	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-021-SA5DS-SB-2.0-3.0 *Collected:* 11/9/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.469	JB	0.0227	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.215	JBQ	0.0113	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0622	JB	0.0143	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0554	JB	0.0153	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0716	JB	0.0201	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0541	JB	0.0138	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.144	JBQ	0.0201	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0829	JB	0.0144	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0493	JBQ	0.0113	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0544	JB	0.0143	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0885	JB	0.0108	MDL	5.24	PQL	ng/Kg	U	B
OCDD	2.31	JB	0.0231	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.201	JBQ	0.0233	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-022-SA5DS-SB-4.0-5.0 *Collected:* 11/9/2011 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	0.270	JB	0.0181	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JB	0.00923	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JB	0.0134	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0287	JBQ	0.0171	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0399	JBQ	0.0115	MDL	5.21	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA5DS-SB-4.0-5.0 *Collected:* 11/9/2011 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
1,2,3,6,7,8-HXCDD	0.122	JB	0.0189	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0381	JB	0.00986	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.154	JB	0.0186	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.187	JB	0.0120	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0398	JBQ	0.0207	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0359	JB	0.00997	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0439	JBQ	0.00986	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JB	0.00954	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	JQ	0.0187	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	0.810	JB	0.0216	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.159	JB	0.0246	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-048-SA7-SB-4.0-5.0 *Collected:* 11/2/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.50	JB	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.298	JB	0.0113	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0802	JB	0.0170	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0554	JB	0.0152	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.140	JB	0.0238	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0544	JBQ	0.0138	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	J	0.0231	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0647	JBQ	0.0159	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.105	JQ	0.0262	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.139	JB	0.0140	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0682	JB	0.0135	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JB	0.0138	MDL	5.08	PQL	ng/Kg	U	B
OCDF	0.623	JB	0.0343	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-048-SA7-SB-9.0-10.0 *Collected:* 11/2/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.79	JB	0.0331	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.370	JB	0.0121	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0613	JBQ	0.0191	MDL	5.13	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-048-SA7-SB-9.0-10.0 *Collected:* 11/2/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0366	J	0.0241	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0365	JB	0.0174	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.118	JBQ	0.0256	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0367	JB	0.0152	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.140	J	0.0238	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0196	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0414	J	0.0271	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0987	JBQ	0.0142	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0292	JBQ	0.0154	MDL	5.13	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0686	JBQ	0.0139	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	J	0.0256	MDL	1.03	PQL	ng/Kg	U	B
OCDF	0.735	JB	0.0281	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-108-SA7-SB-2.9-3.9 *Collected:* 11/3/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.944	JB	0.0172	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.116	JBQ	0.0271	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JBQ	0.0210	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.348	JB	0.0369	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0758	JBQ	0.0192	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.273	J	0.0334	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0911	JB	0.0227	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0740	JQ	0.0313	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.101	JBQ	0.0167	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0929	JB	0.0195	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.117	JBQ	0.0164	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0324	J	0.0302	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.35	JB	0.0360	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA7-SB-4.0-5.0 *Collected:* 11/3/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.54	JB	0.0193	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.259	JB	0.0257	MDL	5.17	PQL	ng/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-128-SA7-SB-4.0-5.0 *Collected:* 11/3/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.113	J	0.0346	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.216	JB	0.0238	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.515	JB	0.0363	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.133	JBQ	0.0214	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.285	J	0.0375	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.207	JBQ	0.0227	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0429	JQ	0.0308	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0521	JB	0.0156	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.163	JB	0.0207	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0470	JBQ	0.0153	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0324	JQ	0.0254	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0282	JQ	0.0256	MDL	1.03	PQL	ng/Kg	U	B
OCDF	5.91	JB	0.0294	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA7-SB-9.0-10.0 *Collected:* 11/3/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.777	JB	0.0158	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0643	JBQ	0.0223	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0793	J	0.0311	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0898	JB	0.0211	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JBQ	0.0335	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.108	JB	0.0193	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.213	JQ	0.0315	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0882	JBQ	0.0226	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0671	JQ	0.0314	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0361	JB	0.0155	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0773	JBQ	0.0194	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0499	JB	0.0149	MDL	5.33	PQL	ng/Kg	U	B
OCDF	1.74	JB	0.0295	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-161-SA7-SB-4.0-5.0 *Collected:* 11/2/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.408	JB	0.0213	MDL	5.24	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-161-SA7-SB-4.0-5.0 *Collected:* 11/2/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.0788	JBQ	0.00843	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0225	JB	0.0140	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0448	JBQ	0.0183	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0222	JBQ	0.00938	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0317	J	0.0182	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0479	JBQ	0.0125	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0180	JBQ	0.0105	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0209	JBQ	0.00906	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0386	JBQ	0.0102	MDL	5.24	PQL	ng/Kg	U	B
OCDD	2.87	JB	0.0192	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.140	JB	0.0301	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-171-SA7-SB-4.0-5.0 *Collected:* 11/3/2011 1:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.873	JB	0.0149	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.108	JB	0.0194	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0612	J	0.0294	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.124	JB	0.0189	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.327	JB	0.0295	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0997	JB	0.0177	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.216	J	0.0277	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0887	JB	0.0184	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0412	JQ	0.0290	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0901	JB	0.0182	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.163	JB	0.0172	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0890	JB	0.0173	MDL	5.15	PQL	ng/Kg	U	B
OCDF	2.08	JB	0.0293	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-171-SA7-SB-9.0-10.0 *Collected:* 11/3/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.09	JB	0.0174	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0839	JB	0.0226	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.116	J	0.0353	MDL	5.28	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-171-SA7-SB-9.0-10.0 *Collected:* 11/3/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.158	JB	0.0232	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.413	JB	0.0384	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JB	0.0224	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.274	J	0.0367	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0242	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	J	0.0328	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.221	JBQ	0.0192	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.139	JB	0.0210	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.271	JB	0.0173	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0554	JQ	0.0283	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0481	J	0.0275	MDL	1.06	PQL	ng/Kg	U	B
OCDF	2.45	JB	0.0282	MDL	10.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Reason Code Legend

Reason Code	*Description*
B	Method Blank Contamination
FD	Field Duplicate Precision
Z	Reporting Limit Trace Value

* denotes a non-reportable result

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX154

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3110B371742	11/8/2011 5:42:00 PM	1,2,3,4,6,7,8-HPCDD	3.52 pg/L	EB-SA7-SB-110311
		1,2,3,4,6,7,8-HPCDF	1.93 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.597 pg/L	
		1,2,3,4,7,8-HXCDF	0.775 pg/L	
		1,2,3,6,7,8-HXCDD	0.271 pg/L	
		1,2,3,7,8,9-HXCDD	0.361 pg/L	
		1,2,3,7,8,9-HXCDF	0.487 pg/L	
		1,2,3,7,8-PECDF	0.339 pg/L	
		2,3,4,6,7,8-HXCDF	0.440 pg/L	
		2,3,4,7,8-PECDF	0.366 pg/L	
		2,3,7,8-TCDD	0.411 pg/L	
		2,3,7,8-TCDF	0.269 pg/L	
		OCDD	5.78 pg/L	
		OCDF	1.71 pg/L	
BLK3190B371833	11/16/2011 6:33:00 PM	1,2,3,4,6,7,8-HPCDD	4.16 pg/L	EB-SA5DS-SB-111011
		1,2,3,4,6,7,8-HPCDF	3.59 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.658 pg/L	
		1,2,3,4,7,8-HXCDF	0.729 pg/L	
		1,2,3,6,7,8-HXCDD	0.344 pg/L	
		1,2,3,6,7,8-HXCDF	0.608 pg/L	
		1,2,3,7,8,9-HXCDF	0.622 pg/L	
		1,2,3,7,8-PECDD	0.646 pg/L	
		1,2,3,7,8-PECDF	0.549 pg/L	
		2,3,4,6,7,8-HXCDF	0.972 pg/L	
		2,3,4,7,8-PECDF	0.578 pg/L	
		OCDD	5.62 pg/L	
		OCDF	2.27 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
EB-SA5DS-SB-111011(RES)	1,2,3,4,6,7,8-HPCDD	4.71 pg/L	4.71U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,4,6,7,8-HPCDF	3.74 pg/L	3.74U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,4,7,8,9-HPCDF	0.265 pg/L	0.265U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,4,7,8-HXCDF	0.739 pg/L	0.739U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,6,7,8-HXCDD	0.698 pg/L	0.698U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,6,7,8-HXCDF	0.724 pg/L	0.724U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,7,8,9-HXCDF	0.297 pg/L	0.297U pg/L
EB-SA5DS-SB-111011(RES)	1,2,3,7,8-PECDF	0.360 pg/L	0.360U pg/L
EB-SA5DS-SB-111011(RES)	2,3,4,6,7,8-HXCDF	0.733 pg/L	0.733U pg/L
EB-SA5DS-SB-111011(RES)	2,3,4,7,8-PECDF	0.392 pg/L	0.392U pg/L
EB-SA5DS-SB-111011(RES)	OCDD	8.05 pg/L	8.05U pg/L
EB-SA5DS-SB-111011(RES)	OCDF	3.11 pg/L	3.11U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,6,7,8-HPCDD	2.43 pg/L	2.43U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,6,7,8-HPCDF	2.14 pg/L	2.14U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,7,8,9-HPCDF	0.222 pg/L	0.222U pg/L
EB-SA7-SB-110311(RES)	1,2,3,4,7,8-HXCDF	0.248 pg/L	0.248U pg/L
EB-SA7-SB-110311(RES)	1,2,3,6,7,8-HXCDD	0.219 pg/L	0.219U pg/L
EB-SA7-SB-110311(RES)	1,2,3,7,8,9-HXCDD	0.285 pg/L	0.285U pg/L
EB-SA7-SB-110311(RES)	1,2,3,7,8,9-HXCDF	0.147 pg/L	0.147U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
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
EB-SA7-SB-110311(RES)	1,2,3,7,8-PECDF	0.151 pg/L	0.151U pg/L
EB-SA7-SB-110311(RES)	2,3,4,6,7,8-HXCDF	0.474 pg/L	0.474U pg/L
EB-SA7-SB-110311(RES)	2,3,4,7,8-PECDF	0.343 pg/L	0.343U pg/L
EB-SA7-SB-110311(RES)	2,3,7,8-TCDF	0.165 pg/L	0.165U pg/L
EB-SA7-SB-110311(RES)	OCDD	4.20 pg/L	4.20U pg/L
EB-SA7-SB-110311(RES)	OCDF	1.31 pg/L	1.31U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3140B371629	11/14/2011 4:29:00 PM	2,3,7,8-TCDF	0.0168 ng/Kg	SL-001-SA3-SB-2.0-3.0 SL-004-SA3-SB-4.0-5.0 SL-004-SA3-SB-7.0-8.0 SL-010-SA3-SB-3.0-4.0 SL-010-SA5DS-SB-2.0-3.0 SL-013-SA3-SB-0.5-1.5 SL-019-SA5DS-SB-2.0-3.0 SL-048-SA7-SB-4.0-5.0 SL-048-SA7-SB-9.0-10.0 SL-108-SA7-SB-2.9-3.9 SL-128-SA7-SB-4.0-5.0 SL-128-SA7-SB-9.0-10.0 SL-161-SA7-SB-4.0-5.0 SL-171-SA7-SB-4.0-5.0 SL-171-SA7-SB-9.0-10.0
BLK3140B371906	11/11/2011 7:06:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.227 ng/Kg 0.0927 ng/Kg 0.0322 ng/Kg 0.0342 ng/Kg 0.0211 ng/Kg 0.0199 ng/Kg 0.0237 ng/Kg 0.0144 ng/Kg 0.0328 ng/Kg 0.0487 ng/Kg 0.373 ng/Kg 0.140 ng/Kg	SL-001-SA3-SB-2.0-3.0 SL-004-SA3-SB-4.0-5.0 SL-004-SA3-SB-7.0-8.0 SL-010-SA3-SB-3.0-4.0 SL-010-SA5DS-SB-2.0-3.0 SL-013-SA3-SB-0.5-1.5 SL-019-SA5DS-SB-2.0-3.0 SL-048-SA7-SB-4.0-5.0 SL-048-SA7-SB-9.0-10.0 SL-108-SA7-SB-2.9-3.9 SL-128-SA7-SB-4.0-5.0 SL-128-SA7-SB-9.0-10.0 SL-161-SA7-SB-4.0-5.0 SL-171-SA7-SB-4.0-5.0 SL-171-SA7-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK3190B370702	11/17/2011 7:02:00 AM	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	DUP04-SA5DS-QC-110911
		1,2,3,4,6,7,8-HPCDF	0.139 ng/Kg	SL-005-SA5DS-SB-1.0-2.0
		1,2,3,4,7,8,9-HPCDF	0.0420 ng/Kg	SL-006-SA5DS-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0224 ng/Kg	SL-021-SA5DS-SB-2.0-3.0
		1,2,3,4,7,8-HXCDF	0.0400 ng/Kg	SL-022-SA5DS-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0198 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0391 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0284 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0503 ng/Kg	
		1,2,3,7,8-PECDD	0.0260 ng/Kg	
		1,2,3,7,8-PECDF	0.0450 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0566 ng/Kg	
		2,3,4,7,8-PECDF	0.0512 ng/Kg	
		OCDD	0.422 ng/Kg	
		OCDF	0.183 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
DUP04-SA5DS-QC-110911(RES)	1,2,3,4,7,8,9-HPCDF	0.117 ng/Kg	0.117U ng/Kg
DUP04-SA5DS-QC-110911(RES)	2,3,4,6,7,8-HXCDF	0.230 ng/Kg	0.230U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-001-SA3-SB-2.0-3.0(RES)	OCDF	0.562 ng/Kg	0.562U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.534 ng/Kg	0.534U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.220 ng/Kg	0.220U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0349 ng/Kg	0.0349U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0778 ng/Kg	0.0778U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0782 ng/Kg	0.0782U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0563 ng/Kg	0.0563U ng/Kg
SL-004-SA3-SB-4.0-5.0(RES)	OCDF	0.391 ng/Kg	0.391U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.653 ng/Kg	0.653U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.362 ng/Kg	0.362U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-004-SA3-SB-7.0-8.0(RES)	OCDF	0.462 ng/Kg	0.462U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.880 ng/Kg	0.880U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDD	0.0358 ng/Kg	0.0358U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_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-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0403 ng/Kg	0.0403U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0745 ng/Kg	0.0745U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0669 ng/Kg	0.0669U ng/Kg
SL-005-SA5DS-SB-1.0-2.0(RES)	OCDF	0.433 ng/Kg	0.433U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.112 ng/Kg	0.112U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg
SL-006-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.252 ng/Kg	0.252U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.414 ng/Kg	0.414U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.364 ng/Kg	0.364U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0738 ng/Kg	0.0738U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-010-SA5DS-SB-2.0-3.0(RES)	OCDF	0.371 ng/Kg	0.371U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.388 ng/Kg	0.388U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.273 ng/Kg	0.273U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0668 ng/Kg	0.0668U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0582 ng/Kg	0.0582U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0492 ng/Kg	0.0492U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0786 ng/Kg	0.0786U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0281 ng/Kg	0.0281U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	OCDD	1.25 ng/Kg	1.25U ng/Kg
SL-019-SA5DS-SB-2.0-3.0(RES)	OCDF	0.236 ng/Kg	0.236U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.469 ng/Kg	0.469U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.215 ng/Kg	0.215U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_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-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0829 ng/Kg	0.0829U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-021-SA5DS-SB-2.0-3.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.270 ng/Kg	0.270U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0287 ng/Kg	0.0287U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.187 ng/Kg	0.187U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0439 ng/Kg	0.0439U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	OCDD	0.810 ng/Kg	0.810U ng/Kg
SL-022-SA5DS-SB-4.0-5.0(RES)	OCDF	0.159 ng/Kg	0.159U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.298 ng/Kg	0.298U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-048-SA7-SB-4.0-5.0(RES)	OCDF	0.623 ng/Kg	0.623U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.370 ng/Kg	0.370U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0613 ng/Kg	0.0613U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0686 ng/Kg	0.0686U ng/Kg
SL-048-SA7-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	1,2,3,4,7,8,9-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_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-108-SA7-SB-2.9-3.9(RES)	1,2,3,6,7,8-HXCDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	1,2,3,7,8,9-HXCDF	0.0911 ng/Kg	0.0911U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	2,3,4,6,7,8-HXCDF	0.0929 ng/Kg	0.0929U ng/Kg
SL-108-SA7-SB-2.9-3.9(RES)	2,3,4,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-128-SA7-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0643 ng/Kg	0.0643U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-128-SA7-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.408 ng/Kg	0.408U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0222 ng/Kg	0.0222U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0479 ng/Kg	0.0479U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0209 ng/Kg	0.0209U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-161-SA7-SB-4.0-5.0(RES)	OCDF	0.140 ng/Kg	0.140U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-171-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-171-SA7-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0481 ng/Kg	0.0481U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5DS-SS-0.0-0.5	DUP04-SA5DS-QC-110911			
MOISTURE	10.3	10.7	4		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-006-SA5DS-SS-0.0-0.5	DUP04-SA5DS-QC-110911			
1,2,3,4,6,7,8-HPCDD	4.09	4.28	5	50.00	
1,2,3,4,6,7,8-HPCDF	0.950	0.991	4	50.00	
1,2,3,4,7,8,9-HPCDF	0.0967	0.117	19	50.00	
1,2,3,4,7,8-HxCDD	0.112	0.121	8	50.00	
1,2,3,4,7,8-HXCDF	0.353	0.321	9	50.00	
1,2,3,6,7,8-HXCDD	0.903	0.974	8	50.00	
1,2,3,6,7,8-HXCDF	0.215	0.217	1	50.00	
1,2,3,7,8,9-HXCDD	1.32	1.25	5	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.501	0.467	7	50.00	
1,2,3,7,8-PECDD	0.185	0.209	12	50.00	
1,2,3,7,8-PECDF	0.293	0.407	33	50.00	
2,3,4,6,7,8-HXCDF	0.240	0.230	4	50.00	
2,3,7,8-TCDD	0.0534	0.0565	6	50.00	
OCDD	38.5	39.2	2	50.00	
OCDF	1.87	1.85	1	50.00	
2,3,4,7,8-PECDF	0.252	0.503	66	50.00	J(all detects)
2,3,7,8-TCDF	0.124	1.10 U	200	50.00	UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SB-111011	1,2,3,4,6,7,8-HPCDD	JB	4.71	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	3.74	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.265	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.739	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.698	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.724	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.297	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.360	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.733	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.392	10.1	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.363	2.01	PQL	pg/L	
	OCDD	JBQ	8.05	20.1	PQL	pg/L	
	OCDF	JB	3.11	20.1	PQL	pg/L	
EB-SA7-SB-110311	1,2,3,4,6,7,8-HPCDD	JBQ	2.43	9.84	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	2.14	9.84	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.222	9.84	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.248	9.84	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.219	9.84	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.262	9.84	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.285	9.84	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.147	9.84	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.151	9.84	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.474	9.84	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.343	9.84	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.165	1.97	PQL	pg/L	
	OCDD	JBQ	4.20	19.7	PQL	pg/L	
	OCDF	JBQ	1.31	19.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA5DS-QC-110911	1,2,3,4,6,7,8-HPCDD	JB	4.28	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.991	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.117	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.121	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.321	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.974	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.217	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.25	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.467	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.209	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.407	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.230	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.503	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0565	1.10	PQL	ng/Kg	
	OCDF	JB	1.85	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA3-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.278	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0712	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.135	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.211	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.277	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.211	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.449	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.203	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.293	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.362	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.143	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.307	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.100	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.135	1.02	PQL	ng/Kg	
	OCDD	JB	8.03	10.2	PQL	ng/Kg	
	OCDF	JB	0.562	10.2	PQL	ng/Kg	
SL-004-SA3-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.534	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.220	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0265	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0349	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.162	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0778	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.258	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0782	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.0562	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0640	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0594	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0563	5.19	PQL	ng/Kg	
	OCDD	JB	3.06	10.4	PQL	ng/Kg	
	OCDF	JB	0.391	10.4	PQL	ng/Kg	
SL-004-SA3-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.653	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.362	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0756	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.33	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.773	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	3.97	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.300	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0862	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0969	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0899	5.28	PQL	ng/Kg	
	OCDD	JB	2.85	10.6	PQL	ng/Kg	
	OCDF	JB	0.462	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA5DS-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.880	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.278	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0280	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0358	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0655	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.257	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0526	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.424	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.126	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0403	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0745	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.103	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0669	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0258	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0475	1.05	PQL	ng/Kg	
	OCDD	JB	6.06	10.5	PQL	ng/Kg	
	OCDF	JB	0.433	10.5	PQL	ng/Kg	
SL-006-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.09	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.950	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0967	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.112	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.353	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.903	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.215	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.32	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.501	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.185	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.293	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.240	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.252	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0534	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.124	1.10	PQL	ng/Kg	
	OCDF	JB	1.87	11.0	PQL	ng/Kg	
SL-010-SA3-SB-3.0-4.0	1,2,3,4,7,8,9-HPCDF	JB	0.603	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.424	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.63	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.01	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.71	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.747	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.654	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.01	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.95	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	1.04	PQL	ng/Kg	
	OCDF	JB	6.07	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.414	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.364	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0431	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0300	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0677	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.184	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0738	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.237	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.222	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0832	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0747	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0688	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0274	1.11	PQL	ng/Kg	
	OCDD	JB	1.92	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.371	11.1	PQL	ng/Kg	
SL-013-SA3-SB-0.5-1.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.333	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JQ	0.153	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.507	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.603	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.223	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.490	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.219	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.112	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.290	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.406	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.277	5.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.202	1.00	PQL	ng/Kg	
SL-019-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.388	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.273	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0392	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0219	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0668	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0582	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0492	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0841	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0825	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0273	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0240	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0786	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0868	5.38	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0281	1.08	PQL	ng/Kg	
	OCDD	JB	1.25	10.8	PQL	ng/Kg	
	OCDF	JB	0.236	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 Laboratory: LL

EDD Filename: DX154_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-021-SA5DS-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.469	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.215	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0622	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0554	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0716	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0541	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.144	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0829	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0493	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0544	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0885	5.24	PQL	ng/Kg	
	OCDD	JB	2.31	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.201	10.5	PQL	ng/Kg	
SL-022-SA5DS-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.270	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.111	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0415	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0287	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0399	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.122	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0381	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.154	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.187	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0398	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0359	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0439	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.101	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0278	1.04	PQL	ng/Kg	
	OCDD	JB	0.810	10.4	PQL	ng/Kg	
	OCDF	JB	0.159	10.4	PQL	ng/Kg	
SL-048-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.50	5.08	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.298	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0802	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0554	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.140	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0544	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.134	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0647	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.105	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.139	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0682	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.102	5.08	PQL	ng/Kg	
	OCDF	JB	0.623	10.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 | Laboratory: LL

EDD Filename: DX154_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.79	5.13	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.370	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0613	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0366	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0365	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.118	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0367	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.140	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.167	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0414	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0987	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0292	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0686	5.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0278	1.03	PQL	ng/Kg	
	OCDF	JB	0.735	10.3	PQL	ng/Kg	
SL-108-SA7-SB-2.9-3.9	1,2,3,4,6,7,8-HPCDF	JB	0.944	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.116	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.105	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.348	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0758	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.273	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0911	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0740	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.101	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0929	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.117	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0324	1.00	PQL	ng/Kg	
	OCDF	JB	2.35	10.0	PQL	ng/Kg	
SL-128-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.54	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.259	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.113	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.216	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.515	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.133	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.285	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.207	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0429	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0521	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.163	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0470	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0324	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0282	1.03	PQL	ng/Kg	
	OCDF	JB	5.91	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX154 **Laboratory: LL**

EDD Filename: DX154_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.777	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0643	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0793	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0898	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.230	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.108	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.213	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0882	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0671	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0361	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0773	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0499	5.33	PQL	ng/Kg	
	OCDF	JB	1.74	10.7	PQL	ng/Kg	
SL-161-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.408	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0788	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0225	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0448	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0222	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.0317	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0479	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0180	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0209	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0386	5.24	PQL	ng/Kg	
	OCDD	JB	2.87	10.5	PQL	ng/Kg	
	OCDF	JB	0.140	10.5	PQL	ng/Kg	
SL-171-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.873	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.108	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0612	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.124	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.327	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0997	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.216	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0887	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0412	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0901	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.163	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0890	5.15	PQL	ng/Kg	
	OCDF	JB	2.08	10.3	PQL	ng/Kg	
SL-171-SA7-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.09	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0839	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.116	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.158	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.413	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.274	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.205	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.221	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.271	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0554	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0481	1.06	PQL	ng/Kg	
	OCDF	JB	2.45	10.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DE197

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	TB-070911	6340794	TB	5030B	8015M	III
11-Jul-2011	TB-070911	6340794	TB	5030B	8260B	III
11-Jul-2011	TB-070911	6340794	TB	5030B	8260B SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3050B	6010B	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3050B	6020	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8082	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8270C	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8270C SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	5035	8260B	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	5035	8260B SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	Gen Prep	7199	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	300.0	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	314.0	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	7471A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3050B	6010B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3050B	6020	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8015B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8015M	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8081A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8082	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8151A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8270C	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8270C SIM	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	Gen Prep	7199	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	300.0	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	7471A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	8015B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	8015M	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3050B	6010B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3050B	6020	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8015B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8015M	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8081A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8082	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8151A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8270C	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8270C SIM	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	Gen Prep	7199	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	300.0	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	314.0	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	7471A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	8015B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8015M	III

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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
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	P340796M261603	MSD	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	P340796R261538	MS	3550B	8270C	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3050B	6010B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3050B	6020	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8015B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8015M	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8081A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8082	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8151A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8270C	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	Gen Prep	7199	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	300.0	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	7471A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	8015B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	8015M	III
11-Jul-2011	DUP01-SA6-QC-071111DUP	P340802D270122B	DUP	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111DUP	P340802D270939B	DUP	METHOD	300.0	III
11-Jul-2011	DUP01-SA6-QC-071111MS	P340802R270208B	MS	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111MS	P340802R270953B	MS	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3050B	6010B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3050B	6020	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8082	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8270C	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8270C SIM	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	5035	8260B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	5035	8260B SIM	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	Gen Prep	7199	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	314.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	7471A	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3050B	6010B	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3050B	6020	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8082	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8270C	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8270C SIM	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	Gen Prep	7199	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	314.0	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	7471A	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3050B	6010B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3050B	6020	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8015B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8015M	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8082	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8270C	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8270C SIM	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8015M	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8260B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8260B SIM	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	Gen Prep	7199	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	300.0	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	314.0	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	7471A	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	8015B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	8015M	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3050B	6010B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3050B	6020	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8015B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8015M	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8081A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8082	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8151A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8270C	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8270C SIM	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	Gen Prep	7199	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	300.0	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	314.0	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	7471A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	8015B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3050B	6010B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3050B	6020	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8015B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8082	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8270C	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8270C SIM	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8260B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8260B SIM	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	Gen Prep	7199	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	300.0	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	314.0	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	7471A	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	8015B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3050B	6010B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3050B	6020	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8015B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8082	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8270C	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8270C SIM	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	5035	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	Gen Prep	7199	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	300.0	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	314.0	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	7471A	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	8015B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	8015M	III

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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: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-135-SA6-SB-4.0-5.0 **Collected:** 7/11/2011 12:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-138-SA6-SB-4.0-5.0 **Collected:** 7/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-138-SA6-SB-9.0-10.0 **Collected:** 7/11/2011 3:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 8:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-199-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 10:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-199-SA5DN-SB-9.0-10.0 **Collected:** 7/11/2011 10:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-292-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 12:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.82	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.95	J	1.78	MDL	24.7	PQL	mg/Kg	J	Z, FD

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4740		2.47	MDL	19.8	PQL	mg/Kg	J	E
IRON	24900		2.58	MDL	19.8	PQL	mg/Kg	J	E, E
MANGANESE	267		0.0356	MDL	0.494	PQL	mg/Kg	J	E, E
PHOSPHORUS	521		0.346	MDL	9.88	PQL	mg/Kg	J	E
TIN	4.67	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	4.22	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.31	J	2.07	MDL	28.7	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2010		2.87	MDL	22.9	PQL	mg/Kg	J	E
IRON	26600		2.99	MDL	22.9	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	147		0.0413	MDL	0.574	PQL	mg/Kg	J	E, E
PHOSPHORUS	354		0.402	MDL	11.5	PQL	mg/Kg	J	E
SODIUM	103	J	6.83	MDL	115	PQL	mg/Kg	J	Z
TIN	3.46	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1780		2.62	MDL	20.9	PQL	mg/Kg	J	E
IRON	19200		2.73	MDL	20.9	PQL	mg/Kg	J	E, E
MANGANESE	334		0.0377	MDL	0.524	PQL	mg/Kg	J	E, E
PHOSPHORUS	299		0.367	MDL	10.5	PQL	mg/Kg	J	E
SODIUM	72.4	J	6.23	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.30	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2160		2.74	MDL	21.9	PQL	mg/Kg	J	E
IRON	21200		2.86	MDL	21.9	PQL	mg/Kg	J	E, E
MANGANESE	150		0.0394	MDL	0.547	PQL	mg/Kg	J	E, E
PHOSPHORUS	125		0.383	MDL	10.9	PQL	mg/Kg	J	E
TIN	3.30	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	7.53	J	1.94	MDL	26.9	PQL	mg/Kg	J	Z
IRON	31000		14.0	MDL	108	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4770		2.69	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	457		0.0387	MDL	0.538	PQL	mg/Kg	J	E, E
PHOSPHORUS	277		0.377	MDL	10.8	PQL	mg/Kg	J	E
TIN	3.41	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5970		2.53	MDL	20.3	PQL	mg/Kg	J	E
IRON	18700		2.64	MDL	20.3	PQL	mg/Kg	J	E, E
MANGANESE	286		0.0365	MDL	0.507	PQL	mg/Kg	J	E, E
PHOSPHORUS	559		0.355	MDL	10.1	PQL	mg/Kg	J	E
TIN	3.08	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.26	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	35800		14.9	MDL	114	PQL	mg/Kg	J	E, E

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	9760		2.86	MDL	22.9	PQL	mg/Kg	J	E
MANGANESE	455		0.0412	MDL	0.572	PQL	mg/Kg	J	E, E
PHOSPHORUS	307		0.400	MDL	11.4	PQL	mg/Kg	J	E
TIN	3.26	J	0.366	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	68900		13.5	MDL	108	PQL	mg/Kg	J	E
IRON	31500		14.1	MDL	108	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	422		0.0389	MDL	0.540	PQL	mg/Kg	J	E, E
PHOSPHORUS	440		0.378	MDL	10.8	PQL	mg/Kg	J	E
TIN	3.05	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7910		2.55	MDL	20.4	PQL	mg/Kg	J	E
IRON	20500		2.67	MDL	20.4	PQL	mg/Kg	J	E, E
MANGANESE	247		0.0368	MDL	0.511	PQL	mg/Kg	J	E, E
PHOSPHORUS	522		0.358	MDL	10.2	PQL	mg/Kg	J	E
TIN	3.11	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27800		13.0	MDL	99.9	PQL	mg/Kg	J	E, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.359	U	0.359	MDL	4.99	PQL	mg/Kg	UJ	FD
CALCIUM	6820		2.50	MDL	20.0	PQL	mg/Kg	J	E
MANGANESE	336		0.0359	MDL	0.499	PQL	mg/Kg	J	E, E
PHOSPHORUS	518		0.350	MDL	9.99	PQL	mg/Kg	J	E
TIN	4.79	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	4.88	J	0.459	MDL	4.99	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4860		2.54	MDL	20.3	PQL	mg/Kg	J	E
IRON	23400		2.65	MDL	20.3	PQL	mg/Kg	J	E, E
MANGANESE	239		0.0365	MDL	0.508	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	527		0.355	MDL	10.2	PQL	mg/Kg	J	E
TIN	3.47	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.46	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	611		2.71	MDL	14.5	PQL	mg/Kg	J	A

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0562	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	7.74		0.0485	MDL	0.0969	PQL	mg/Kg	J	Q, E, E

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.35		0.0717	MDL	0.194	PQL	mg/Kg	J	Q, E
ARSENIC	4.82		0.0775	MDL	0.388	PQL	mg/Kg	J	FD
CADMIUM	1.85		0.0426	MDL	0.0969	PQL	mg/Kg	J	Q
CHROMIUM	28.0		0.116	MDL	0.388	PQL	mg/Kg	J	Q
COPPER	62.2		0.0775	MDL	0.388	PQL	mg/Kg	J	E, E
LEAD	84.8		0.0099	MDL	0.194	PQL	mg/Kg	J	E, E
NICKEL	14.3		0.0969	MDL	0.388	PQL	mg/Kg	J	Q, Q, E
VANADIUM	28.7		0.0213	MDL	0.0969	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.36		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0832	U	0.0832	MDL	0.225	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0495	U	0.0495	MDL	0.112	PQL	mg/Kg	UJ	Q
CHROMIUM	20.3		0.135	MDL	0.450	PQL	mg/Kg	J	Q
COPPER	6.43		0.0900	MDL	0.450	PQL	mg/Kg	J	E, E
LEAD	7.06		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E
NICKEL	12.6		0.112	MDL	0.450	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0830	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	53.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, Q, E
ZINC	45.9		0.630	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.482		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	U	0.0768	MDL	0.207	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.133		0.0456	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	17.6		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COPPER	8.61		0.0830	MDL	0.415	PQL	mg/Kg	J	E, E
LEAD	4.77		0.0106	MDL	0.207	PQL	mg/Kg	J	E, E
NICKEL	13.7		0.104	MDL	0.415	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0298	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	34.7		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, Q, E
ZINC	50.8		0.581	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0714	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.512		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0786	U	0.0786	MDL	0.212	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0529	J	0.0467	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.3		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COPPER	5.98		0.0850	MDL	0.425	PQL	mg/Kg	J	E, E
LEAD	6.20		0.0108	MDL	0.212	PQL	mg/Kg	J	E, E
NICKEL	9.96		0.106	MDL	0.425	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0371	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	39.7		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, Q, E
ZINC	44.1		0.595	MDL	3.19	PQL	mg/Kg	J	A

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.675		0.0523	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0774	MDL	0.209	PQL	mg/Kg	J	Q, E
CADMIUM	0.262		0.0460	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COPPER	12.3		0.0836	MDL	0.418	PQL	mg/Kg	J	E, E
LEAD	9.93		0.0107	MDL	0.209	PQL	mg/Kg	J	E, E
NICKEL	24.4		0.105	MDL	0.418	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0646	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	72.4		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, Q, E
ZINC	65.9		0.585	MDL	3.14	PQL	mg/Kg	J	A

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.660		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.179	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.433		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	21.8		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COPPER	15.5		0.0795	MDL	0.397	PQL	mg/Kg	J	E, E
LEAD	20.2		0.0101	MDL	0.199	PQL	mg/Kg	J	E, E
NICKEL	12.6		0.0993	MDL	0.397	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0746	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	37.6		0.0219	MDL	0.0993	PQL	mg/Kg	J	Q, Q, E
ZINC	102		0.556	MDL	2.98	PQL	mg/Kg	J	A

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0664	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.353		0.0572	MDL	0.114	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0847	MDL	0.229	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.330		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	41.5		0.137	MDL	0.458	PQL	mg/Kg	J	Q
COPPER	18.3		0.0915	MDL	0.458	PQL	mg/Kg	J	E, E
LEAD	10.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, E
NICKEL	24.3		0.114	MDL	0.458	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0436	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	76.6		0.0252	MDL	0.114	PQL	mg/Kg	J	Q, Q, E
ZINC	78.2		0.641	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0894	J	0.0645	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.196		0.0556	MDL	0.111	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0953	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.318		0.0489	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	34.9		0.133	MDL	0.444	PQL	mg/Kg	J	Q
COPPER	16.9		0.0889	MDL	0.444	PQL	mg/Kg	J	E, E
LEAD	8.44		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E
NICKEL	20.1		0.111	MDL	0.444	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0386	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	67.1		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, Q, E
ZINC	64.8		0.622	MDL	3.33	PQL	mg/Kg	J	A

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	221		1.42	MDL	7.59	PQL	mg/Kg	J	A

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.238	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0506	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.420		0.0748	MDL	0.202	PQL	mg/Kg	J	Q, E
CADMIUM	1.41		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	20.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COPPER	19.2		0.0809	MDL	0.405	PQL	mg/Kg	J	E, E
LEAD	32.6		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E
NICKEL	12.0		0.101	MDL	0.405	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0759	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	36.6		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, Q, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	796		2.69	MDL	14.4	PQL	mg/Kg	J	A

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.319	J	0.0557	MDL	0.384	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	5.63		0.0480	MDL	0.0961	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.29		0.0711	MDL	0.192	PQL	mg/Kg	J	Q, E
ARSENIC	8.24		0.0768	MDL	0.384	PQL	mg/Kg	J	FD
CADMIUM	2.39		0.0423	MDL	0.0961	PQL	mg/Kg	J	Q
CHROMIUM	34.4		0.115	MDL	0.384	PQL	mg/Kg	J	Q
COPPER	50.3		0.0768	MDL	0.384	PQL	mg/Kg	J	E, E
LEAD	78.3		0.0098	MDL	0.192	PQL	mg/Kg	J	E, E
NICKEL	17.5		0.0961	MDL	0.384	PQL	mg/Kg	J	Q, Q, E
VANADIUM	36.0		0.0211	MDL	0.0961	PQL	mg/Kg	J	Q, Q, E

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	481		2.76	MDL	14.8	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0572	MDL	0.394	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.70		0.0493	MDL	0.0986	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.774		0.0729	MDL	0.197	PQL	mg/Kg	J	Q, E
CADMIUM	1.30		0.0434	MDL	0.0986	PQL	mg/Kg	J	Q
CHROMIUM	61.0		0.118	MDL	0.394	PQL	mg/Kg	J	Q
COPPER	27.1		0.0789	MDL	0.394	PQL	mg/Kg	J	E, E
LEAD	48.8		0.0101	MDL	0.197	PQL	mg/Kg	J	E, E
NICKEL	18.2		0.0986	MDL	0.394	PQL	mg/Kg	J	Q, Q, E
VANADIUM	41.2		0.0217	MDL	0.0986	PQL	mg/Kg	J	Q, Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

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

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0206	J	0.0080	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0820	J	0.0070	MDL	0.0998	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	44	J	40	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.47	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.81	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.5	J	4.4	MDL	13	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.4	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	42	J	40	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: PrepDE197_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	41		6.7	MDL	34	PQL	ug/Kg	J	FD
DIELDRIN	8.8	U	8.8	MDL	34	PQL	ug/Kg	UJ	FD
ENDOSULFAN II	36		6.7	MDL	34	PQL	ug/Kg	J	FD
ENDRIN ALDEHYDE	12	J	6.7	MDL	34	PQL	ug/Kg	J	Z, FD

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.87		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	2.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.26	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	0.62		0.067	MDL	0.34	PQL	ug/Kg	J	S
HEPTACHLOR	0.13	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.56		0.034	MDL	0.17	PQL	ug/Kg	J	S

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	3.4	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z
DIELDRIN	2.6	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	6.7	U	6.7	MDL	34	PQL	ug/Kg	UJ	FD
DIELDRIN	60		6.7	MDL	34	PQL	ug/Kg	J	FD
ENDOSULFAN II	15	U	15	MDL	34	PQL	ug/Kg	UJ	FD
ENDRIN ALDEHYDE	14	U	14	MDL	34	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	39	J	16	MDL	69	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	5.8	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z
MIREX	1.8	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.70	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, FD
Aroclor 5460	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	FD

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2600		67	MDL	340	PQL	ug/Kg	J	FD
Aroclor 5460	3300		200	MDL	670	PQL	ug/Kg	J	FD

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.53	U	0.53	MDL	0.53	PQL	ug/Kg	UJ	FD
2,4,5-TP (Silvex)	0.40		0.076	MDL	0.17	PQL	ug/Kg	J	S, FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.3	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.077	J	0.077	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.62		0.083	MDL	0.17	PQL	ug/Kg	J	Q, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	UJ	FD
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.69	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPA	190	J	77	MDL	250	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	89	J	17	MDL	170	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	28	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	150	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	21	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
FLUORENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z
N-NITROSODIPHENYLAMINE	140	J	17	MDL	170	PQL	ug/Kg	J	Z, FD

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	31	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	33	J	18	MDL	360	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	66	J	17	MDL	170	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
Butylbenzylphthalate	25	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	26	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	60	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q, Q
2,4-DINITROTOLUENE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
2,6-DINITROTOLUENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2-CHLOROPHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2-METHYLPHENOL	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	R	Q, Q
3-NITROANILINE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
4-METHYLPHENOL	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4-NITROANILINE	67	U	67	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROISOPROPYL) ETHER	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	17	MDL	340	PQL	ug/Kg	J	Z
CARBAZOLE	27	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD
HEXACHLOROCYCLOPENTADIENE	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
HEXACHLOROETHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
N-NITROSODIPHENYLAMINE	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	100	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	150	J	60	MDL	180	PQL	ug/Kg	J	Z
Di-n-butylphthalate	200		60	MDL	180	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	50		6.7	MDL	17	PQL	ug/Kg	J	FD

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	8.2	J	6.6	MDL	17	PQL	ug/Kg	J	Z
Butylbenzylphthalate	69	J	60	MDL	180	PQL	ug/Kg	J	Z
Di-n-butylphthalate	85	J	60	MDL	180	PQL	ug/Kg	U	B
Di-n-octylphthalate	64	J	60	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	10	J	6.6	MDL	17	PQL	ug/Kg	J	Z
PHENANTHRENE	8.5	J	6.6	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	68	J	61	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: PrepDE197_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	11	J	6.6	MDL	17	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	9.1	J	3.3	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	530		6.6	MDL	17	PQL	ug/Kg	J	L
Di-n-butylphthalate	160	J	60	MDL	180	PQL	ug/Kg	U	B
FLUORENE	7.5	J	6.6	MDL	17	PQL	ug/Kg	J	Z
NAPHTHALENE	6.6	U	6.6	MDL	17	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	180		6.7	MDL	17	PQL	ug/Kg	J	L
Di-n-butylphthalate	190		60	MDL	180	PQL	ug/Kg	U	B
FLUORENE	8.0	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	100	MDL	500	PQL	ug/Kg	J	Z, FD

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	100	U	100	MDL	500	PQL	ug/Kg	UJ	FD

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	15		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.6		0.24	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.12	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		7.3	MDL	8.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.0		0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.14	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		7.3	MDL	8.7	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-149-SA5DN-SB-4.0-5.0 **Collected: 7/11/2011 8:15:00** **Analysis Type: RES** **Dilution: 0.99**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	6.9		0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.1	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-199-SA5DN-SB-4.0-5.0 **Collected: 7/11/2011 10:00:00** **Analysis Type: RES** **Dilution: 0.85**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.7		0.24	MDL	4.0	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE197

Method Blank Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19408DB220504	7/22/2011 5:04:00 AM	CALCIUM	3.10 mg/Kg	DUP01-SA6-QC-071111
		IRON	4.74 mg/Kg	SL-135-SA6-SB-4.0-5.0
		LITHIUM	0.67 mg/Kg	SL-138-SA6-SB-4.0-5.0
		MAGNESIUM	1.14 mg/Kg	SL-138-SA6-SB-9.0-10.0
		MANGANESE	0.0430 mg/Kg	SL-149-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.40 mg/Kg	SL-149-SA6-SS-0.0-0.5
		STRONTIUM	0.0270 mg/Kg	SL-199-SA5DN-SB-4.0-5.0
		TIN	1.72 mg/Kg	SL-199-SA5DN-SB-9.0-10.0
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA6-QC-071111(RES)	TIN	4.67 mg/Kg	4.67U mg/Kg
SL-135-SA6-SB-4.0-5.0(RES)	TIN	3.46 mg/Kg	3.46U mg/Kg
SL-138-SA6-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-138-SA6-SB-9.0-10.0(RES)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-149-SA6-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	TIN	3.26 mg/Kg	3.26U mg/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-292-SA6-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-297-SA6-SS-0.0-0.5(RES)	TIN	4.79 mg/Kg	4.79U mg/Kg
SL-298-SA6-SS-0.0-0.5(RES)	TIN	3.47 mg/Kg	3.47U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19426BB222145A	7/14/2011 9:45:00 PM	COPPER	0.0826 mg/Kg	DUP01-SA6-QC-071111
		VANADIUM	0.0404 mg/Kg	SL-135-SA6-SB-4.0-5.0
				SL-138-SA6-SB-4.0-5.0
				SL-138-SA6-SB-9.0-10.0
				SL-149-SA5DN-SB-4.0-5.0
				SL-149-SA6-SS-0.0-0.5
				SL-199-SA5DN-SB-4.0-5.0
				SL-199-SA5DN-SB-9.0-10.0
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE	9.3 ug/Kg	SL-135-SA6-SB-4.0-5.0
		CHLOROFORM	0.14 ug/Kg	SL-138-SA6-SB-4.0-5.0
		METHYLENE CHLORIDE	2.1 ug/Kg	SL-149-SA5DN-SB-4.0-5.0
		TOLUENE	0.11 ug/Kg	SL-199-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-135-SA6-SB-4.0-5.0(RES)	ACETONE	15 ug/Kg	15U ug/Kg
SL-135-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.6 ug/Kg	7.6U ug/Kg
SL-135-SA6-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	3.9U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	4.4U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	6.9 ug/Kg	6.9U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	4.4U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.0U ug/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLF19B261714	7/19/2011 5:14:00 PM	Di-n-butylphthalate	7.6 ug/Kg	DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA6-QC-071111(RES)	Di-n-butylphthalate	200 ug/Kg	200U ug/Kg
SL-149-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	85 ug/Kg	180U ug/Kg
SL-297-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	160 ug/Kg	180U ug/Kg
SL-298-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	190 ug/Kg	190U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 29 44	22 47 -	59.00-109.00 63.00-107.00 63.00-107.00	84 (20.00) 47 (20.00) 39 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex) 2,4-DB	- 258	- 301	24.00-141.00 10.00-201.00	118 (35.00) -	2,4,5-TP (Silvex) 2,4-DB	J(all detects)
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DICAMBA DINOSEB	0 0	- 0	10.00-190.00 10.00-46.00	200 (50.00) -	DICAMBA DINOSEB	J(all detects) R(all non-detects)
SL-297-SA6-SS-0.0-0.5MS (SL-297-SA6-SS-0.0-0.5)	2,4,5-T	1	-	10.00-156.00	-	2,4,5-T	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	2200 2747	7665 9486	49.00-123.00 49.00-123.00	21 (20.00) -	EFH (C21-C30) EFH (C30-C40)	No Qual, Diluted Out
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	0 0 0	0 762 0	49.00-123.00 49.00-123.00 49.00-123.00	- 200 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	No Qual, Diluted Out

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DIELDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	3356 2742 612	1843 2492 559	19.00-154.00 10.00-148.00 10.00-140.00	- - -	DIELDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual, Diluted Out
	4,4'-DDE	0	0	18.00-161.00	-	4,4'-DDE	
	4,4'-DDT	-4084	1830	10.00-176.00	-	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN II	2611	0	28.00-154.00	200 (50.00)	ENDOSULFAN II	
	ENDOSULFAN SULFATE	0	0	21.00-160.00	-	ENDOSULFAN SULFATE	
	ENDRIN	4558	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	HEPTACHLOR	0	0	13.00-126.00	-	HEPTACHLOR	
	HEPTACHLOR EPOXIDE	6197	0	13.00-157.00	200 (50.00)	HEPTACHLOR EPOXIDE	
	METHOXYCHLOR	0	0	32.00-147.00	-	METHOXYCHLOR	

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS	m-Terphenyl	-	9	75.00-125.00	157 (20.00)	m-Terphenyl	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5MSD	O-TERPHENYL	69	11	75.00-125.00	144 (20.00)	O-TERPHENYL	
(SL-297-SA6-SS-0.0-0.5)	p-Terphenyl	-	46	75.00-125.00	62 (20.00)	p-Terphenyl	

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS	AROCLOR 1016	0	0	29.00-146.00	-	AROCLOR 1016	No Qual, Diluted Out
SL-297-SA6-SS-0.0-0.5MSD	AROCLOR 1260	0	0	39.00-149.00	-	AROCLOR 1260	
(SL-297-SA6-SS-0.0-0.5)							

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	CHROMIUM	175	-	75.00-125.00	-	CHROMIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ARSENIC ZINC	-30 -1864	-55 -661	75.00-125.00 75.00-125.00	- -	ARSENIC ZINC	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ANTIMONY CADMIUM COPPER LEAD NICKEL VANADIUM	64 36 180 1607 73 49	35 67 45 180 181 179	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - 21 (20.00) 40 (20.00) 37 (20.00) 28 (20.00)	ANTIMONY CADMIUM COPPER LEAD NICKEL VANADIUM	J(all detects) UJ(all non-detects) Cu, Pb, No Qual %R, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	MOLYBDENUM	226	-	75.00-125.00	52 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5MS (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	BARIUM	-32	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ALUMINUM	155	866	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	CALCIUM MAGNESIUM	-299 -	574 20	75.00-125.00 75.00-125.00	47 (20.00) -	CALCIUM MAGNESIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	IRON MANGANESE PHOSPHORUS	17569 - 333	3503 291 71	75.00-125.00 75.00-125.00 75.00-125.00	37 (20.00) 22 (20.00) 37 (20.00)	IRON MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE BENZOIC ACID DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE INDENO(1,2,3-CD)PYRENE PENTACHLOROPHENOL	- - - - - -	183 - 126 137 146 -	59.00-127.00 10.00-173.00 65.00-125.00 77.00-114.00 61.00-126.00 28.00-127.00	41 (30.00) 50 (30.00) - 44 (30.00) - 71 (30.00)	BENZO(G,H,I)PERYLENE BENZOIC ACID DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE INDENO(1,2,3-CD)PYRENE PENTACHLOROPHENOL	J(all detects)
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZIDINE	11 11 0	0 0 0	20.00-143.00 16.00-119.00 35.00-141.00	200 (30.00) 200 (30.00) -	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZIDINE	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4-DINITROTOLUENE	-	44	73.00-113.00	59 (30.00)	2,4-DINITROTOLUENE	J(all detects) UJ(all non-detects)
	2,6-DINITROTOLUENE	-	48	69.00-123.00	56 (30.00)	2,6-DINITROTOLUENE	
	2-CHLOROPHENOL	-	72	73.00-121.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	-	71	75.00-111.00	-	2-METHYLPHENOL	
	2-NITROPHENOL	-	53	74.00-115.00	43 (30.00)	2-NITROPHENOL	
	3-NITROANILINE	-	45	59.00-122.00	50 (30.00)	3-NITROANILINE	
	4,6-DINITRO-2-METHYLPHENOL	16	11	24.00-116.00	35 (30.00)	4,6-DINITRO-2-METHYLPHEN	
	4-METHYLPHENOL	-	67	71.00-111.00	-	4-METHYLPHENOL	
	4-NITROANILINE	-	48	52.00-112.00	36 (30.00)	4-NITROANILINE	
	ANILINE	33	21	35.00-95.00	44 (30.00)	ANILINE	
	BIS(2-CHLOROETHOXY)METHA	-	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	
	BIS(2-CHLOROISOPROPYL) ET	-	53	55.00-142.00	-	BIS(2-CHLOROISOPROPYL) E	
	HEXACHLOROCYCLOPENTADI	-	9	10.00-153.00	72 (30.00)	HEXACHLOROCYCLOPENTAD	
	HEXACHLOROETHANE	-	56	57.00-109.00	-	HEXACHLOROETHANE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	485	-	39.00-167.00	45 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
	Butylbenzylphthalate	250	237	57.00-173.00	-	Butylbenzylphthalate	
	Di-n-octylphthalate	290	274	40.00-192.00	-	Di-n-octylphthalate	
	NAPHTHALENE	103	-	61.00-102.00	-	NAPHTHALENE	
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE	-325	-98	59.00-128.00	-	BENZO(A)ANTHRACENE	No Qual, Diluted Out
	BENZO(A)PYRENE	-354	-165	45.00-138.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-425	-261	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-347	-413	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-211	-26	57.00-153.00	-	BENZO(K)FLUORANTHENE	
	CHRYSENE	-429	-340	48.00-134.00	-	CHRYSENE	
	Diethylphthalate	0	0	70.00-136.00	-	Diethylphthalate	
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
	FLUORANTHENE	-1195	-781	26.00-166.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-269	-255	21.00-143.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-351	-281	12.00-165.00	-	PHENANTHRENE	
	PYRENE	-739	-519	15.00-153.00	-	PYRENE	
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	ANTHRACENE	44	49	73.00-115.00	-	ANTHRACENE	No Qual, Diluted Out
	DIBENZO(A,H)ANTHRACENE	5	14	22.00-133.00	-	DIBENZO(A,H)ANTHRACENE	
	Di-n-butylphthalate	178	32	65.00-148.00	-	Di-n-butylphthalate	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS (SL-135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-297-SA6-SS-0.0-0.5MS **SL-297-SA6-SS-0.0-0.5MSD** (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	TITANIUM	329	306	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
DUP01-SA6-QC-071111DUP (DUP01-SA6-QC-071111)	FLUORIDE	30	20.00	No Qual, OK by Difference
SL-297-SA6-SS-0.0-0.5DUP (SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	FLUORIDE	30	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	IRON	22	20.00	
	MANGANESE	25	20.00	
	SODIUM	23	20.00	J(all detects) UJ(all non-detects)
				Na, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ANTIMONY	53	20.00	
	COPPER	22	20.00	
	LEAD	59	20.00	J(all detects) UJ(all non-detects)
	MOLYBDENUM	119	20.00	
	SELENIUM	41	20.00	
	SILVER	63	20.00	
				Se, Ag, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	53	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	MERCURY	41	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11953AQ242146A (DUP01 -SA6-QC-071111 SL -149-SA6-SS-0.0-0.5 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	DINOSEB	7	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19426BQ222148A (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	ANTIMONY	64	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19408DQ220508	ALUMINUM	146	-	80.00-120.00	-	ALUMINUM	
(DUP01 -SA6-QC-071111	IRON	124	-	80.00-120.00	-	IRON	
SL -135-SA6-SB-4.0-5.0	MAGNESIUM	127	-	80.00-120.00	-	MAGNESIUM	
SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)							No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9LFLCSQ261745 (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	BENZO(A)PYRENE	130	-	58.00-129.00	-	BENZO(A)PYRENE	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20408AQ220410 (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	TITANIUM	133	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB16Q211423A **LCSB16Y211251A** (SL-135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -149-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA6-QC-071111	n-Triacontane-d62	41	50.00-150.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-149-SA6-SS-0.0-0.5	ACETONE	152	42.00-138.00	All Target Analytes	J(all detects)
SL-292-SA6-SS-0.0-0.5	n-Triacontane-d62	46	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5	n-Triacontane-d62	1	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-149-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	176	20.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA6-QC-071111	2,4-Dichlorophenylacetic acid	358	36.00-156.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MOISTURE	0.85	0.80	6		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
FLUORIDE	2.7	1.8	40	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
ALUMINUM	11200	9320	18	50.00	
CALCIUM	6820	4740	36	50.00	
IRON	27800	24900	11	50.00	
LITHIUM	17.1	14.6	16	50.00	
MAGNESIUM	4420	3660	19	50.00	
MANGANESE	336	267	23	50.00	
PHOSPHORUS	518	521	1	50.00	No Qualifiers Applied
POTASSIUM	2520	2080	19	50.00	
SODIUM	193	158	20	50.00	
STRONTIUM	30.6	26.0	16	50.00	
TIN	4.79	4.67	3	50.00	
TITANIUM	706	702	1	50.00	
Zirconium	4.88	4.22	15	50.00	
BORON	4.99 U	4.95	200	50.00	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
ANTIMONY	1.29	1.35	5	50.00	
BARIUM	75.2	69.9	7	50.00	
BERYLLIUM	0.418	0.320	27	50.00	
CADMIUM	2.39	1.85	25	50.00	
CHROMIUM	34.4	28.0	21	50.00	
COBALT	9.83	8.65	13	50.00	
COPPER	50.3	62.2	21	50.00	
LEAD	78.3	84.8	8	50.00	No Qualifiers Applied
MOLYBDENUM	5.63	7.74	32	50.00	
NICKEL	17.5	14.3	20	50.00	
SELENIUM	0.319	0.376	16	50.00	
SILVER	0.197	0.129	42	50.00	
THALLIUM	0.193	0.150	25	50.00	
VANADIUM	36.0	28.7	23	50.00	
ZINC	796	611	26	50.00	
ARSENIC	8.24	4.82	52	50.00	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
HEXAVALENT CHROMIUM	4.8	2.9	49	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MERCURY	0.413	0.332	22	50.00	No Qualifiers Applied

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
METHANOL	500 U	160	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
EFH (C15-C20)	42	44	5	50.00	
EFH (C21-C30)	450	500	11	50.00	No Qualifiers Applied
EFH (C30-C40)	830	870	5	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
4,4'-DDT	200	160	22	50.00	No Qualifiers Applied
4,4'-DDE	34 U	41	200	50.00	
DIELDRIN	60	34 U	200	50.00	J(all detects)
ENDOSULFAN II	34 U	36	200	50.00	UJ(all non-detects)
ENDRIN ALDEHYDE	34 U	12	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
AROCLOR 1254	2600	0.70	200	50.00	J(all detects)
Aroclor 5460	3300	3.3 U	200	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
2,4,5-T	0.62	0.53 U	200	50.00	J(all detects)
2,4,5-TP (Silvex)	0.17 U	0.40	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
Di-n-butylphthalate	160	200	22	50.00	No Qualifiers Applied
NAPHTHALENE	17 U	50	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
CARBAZOLE	27	150	139	50.00	J(all detects)
DIBENZOFURAN	170 U	21	200	50.00	UJ(all non-detects)
N-NITROSODIPHENYLAMINE	170 U	140	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
PH	7.90	7.75	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	BORON	J	4.95	24.7	PQL	mg/Kg	J (all detects)
	TIN	J	4.67	9.88	PQL	mg/Kg	
	Zirconium	J	4.22	4.94	PQL	mg/Kg	
SL-135-SA6-SB-4.0-5.0	BORON	J	3.31	28.7	PQL	mg/Kg	J (all detects)
	SODIUM	J	103	115	PQL	mg/Kg	
	TIN	J	3.46	11.5	PQL	mg/Kg	
	Zirconium	J	4.69	5.74	PQL	mg/Kg	
SL-138-SA6-SB-4.0-5.0	SODIUM	J	72.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	3.30	5.24	PQL	mg/Kg	
SL-138-SA6-SB-9.0-10.0	TIN	J	3.30	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.47	PQL	mg/Kg	
SL-149-SA5DN-SB-4.0-5.0	BORON	J	7.53	26.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.41	10.8	PQL	mg/Kg	
SL-149-SA6-SS-0.0-0.5	TIN	J	3.08	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.26	5.07	PQL	mg/Kg	
SL-199-SA5DN-SB-4.0-5.0	TIN	J	3.26	11.4	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-9.0-10.0	TIN	J	3.05	10.8	PQL	mg/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	TIN	J	3.11	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.11	PQL	mg/Kg	
SL-297-SA6-SS-0.0-0.5	TIN	J	4.79	9.99	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.88	4.99	PQL	mg/Kg	
SL-298-SA6-SS-0.0-0.5	TIN	J	3.47	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.46	5.08	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	SELENIUM	J	0.376	0.388	PQL	mg/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	SELENIUM	J	0.166	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0830	0.112	PQL	mg/Kg	
SL-138-SA6-SB-4.0-5.0	SELENIUM	J	0.117	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0298	0.104	PQL	mg/Kg	
SL-138-SA6-SB-9.0-10.0	CADMIUM	J	0.0529	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0714	0.425	PQL	mg/Kg	
	SILVER	J	0.0371	0.106	PQL	mg/Kg	
SL-149-SA5DN-SB-4.0-5.0	SELENIUM	J	0.133	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0646	0.105	PQL	mg/Kg	
SL-149-SA6-SS-0.0-0.5	ANTIMONY	J	0.179	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.397	PQL	mg/Kg	
	SILVER	J	0.0746	0.0993	PQL	mg/Kg	
SL-199-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.135	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.458	PQL	mg/Kg	
	SILVER	J	0.0436	0.114	PQL	mg/Kg	
SL-199-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0953	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0894	0.444	PQL	mg/Kg	
	SILVER	J	0.0386	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-292-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.238 0.0759	0.405 0.101	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-297-SA6-SS-0.0-0.5	SELENIUM	J	0.319	0.384	PQL	mg/Kg	J (all detects)
SL-298-SA6-SS-0.0-0.5	SELENIUM	J	0.153	0.394	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA6-SB-4.0-5.0	MERCURY	J	0.0206	0.114	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	MERCURY	J	0.0102	0.104	PQL	mg/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	MERCURY	J	0.0820	0.0998	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	METHANOL	J	160	500	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	EFH (C15-C20)	J	44	120	PQL	mg/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.47 0.70	1.4 1.4	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.81	1.3	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	EFH (C15-C20)	J	5.5	13	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.4	12	PQL	mg/Kg	J (all detects)
SL-297-SA6-SS-0.0-0.5	EFH (C15-C20)	J	42	120	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	ENDRIN ALDEHYDE	J	12	34	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	Chlordane	J	2.3	3.4	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.26	0.34	PQL	ug/Kg	
	HEPTACHLOR	J	0.13	0.17	PQL	ug/Kg	
SL-292-SA6-SS-0.0-0.5	4,4'-DDD	J	3.4	8.7	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	2.6	8.7	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	Chlordane	J	39	69	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	5.8	6.9	PQL	ug/Kg	
	MIREX	J	1.8	6.9	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	AROCLOR 1254	J	0.70	1.7	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	2,4-DB	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.077	0.17	PQL	ug/Kg	J (all detects)
SL-298-SA6-SS-0.0-0.5	DICAMBA	J	0.69	1.2	PQL	ug/Kg	J (all detects)
	MCPA	J	190	250	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA6-SB-4.0-5.0	TOLUENE	J	0.12	3.9	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	TOLUENE	J	0.14	4.4	PQL	ug/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.4	PQL	ug/Kg	J (all detects)
SL-199-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.0	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	ACENAPHTHENE	J	89	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	28	170	PQL	ug/Kg	
	CARBAZOLE	J	150	170	PQL	ug/Kg	
	DIBENZOFURAN	J	21	170	PQL	ug/Kg	
	FLUORENE	J	44	170	PQL	ug/Kg	
	N-NITROSODIPHENYLAMINE	J	140	170	PQL	ug/Kg	
SL-135-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	390	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	360	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	370	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	22	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	18	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	
	CHRYSENE	J	23	170	PQL	ug/Kg	
	FLUORANTHENE	J	36	170	PQL	ug/Kg	
SL-199-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	370	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	ACENAPHTHENE	J	66	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	41	170	PQL	ug/Kg	
	Butylbenzylphthalate	J	25	170	PQL	ug/Kg	
	DIBENZOFURAN	J	26	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	130	170	PQL	ug/Kg	
	FLUORENE	J	60	170	PQL	ug/Kg	
SL-297-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	160	340	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	27	170	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	140	170	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	100	170	PQL	ug/Kg	
	CARBAZOLE	J	41	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	36	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	130	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	BIS(2-ETHYLHEXYL)PHTHALATE	J	150	180	PQL	ug/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	NAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	8.2	17	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	69	180	PQL	ug/Kg	
	Di-n-butylphthalate	J	85	180	PQL	ug/Kg	
	Di-n-octylphthalate	J	64	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	10	17	PQL	ug/Kg	
	PHENANTHRENE	J	8.5	17	PQL	ug/Kg	
SL-199-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	21	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	Di-n-octylphthalate	J	68	180	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-297-SA6-SS-0.0-0.5	ACENAPHTHENE	J	11	17	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	9.1	17	PQL	ug/Kg	
	Di-n-butylphthalate	J	160	180	PQL	ug/Kg	
	FLUORENE	J	7.5	17	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	ACENAPHTHENE	J	15	17	PQL	ug/Kg	J (all detects)
	FLUORENE	J	8.0	17	PQL	ug/Kg	

LDC #: 26407P4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE197 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OC
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-148-SA5DN-SB-4.0-5.0	11	DUP01-SA6-QC-071111	21		31	
2	SL-199-SA5DN-SB-4.0-5.0	12	SL-297-SA6-SS-0.0-0.5MS	22		32	
3	SL-199-SA5DN-SB-9.0-10.0	13	SL-297-SA6-SS-0.0-0.5MSD	23		33	
4	SL-135-SA6-SB-4.0-5.0	14	SL-297-SA6-SS-0.0-0.5DUP	24		34	
5	SL-138-SA6-SB-4.0-5.0	15		25		35	
6	SL-138-SA6-SB-9.0-10.0	16		26		36	
7	SL-149-SA6-SS-0.0-0.5	17		27		37	
8	SL-297-SA6-SS-0.0-0.5	18		28		38	
9	SL-292-SA6-SS-0.0-0.5	19		29		39	
10	SL-298-SA6-SS-0.0-0.5	20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6340796BKG Matrix Spike Lab Sample ID: 6340797MS Matrix Spike Duplicate Lab Sample ID: 6340798MSD
% Solids for Sample: 99.2
Batch Id(s): P19408D, P19426B, P19411G, P20408A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		11183.5985		11496.0373		12878.8081		201.6129	195.7407	MG/KG	155		866		11			20	P
Antimony	121	1.2849		2.0337		1.7115		1.1744	1.2097	MG/KG	64	N	35	N	17		75 - 125	20	MS
Arsenic	75	8.2373		7.6593		7.1310		1.9574	2.0161	MG/KG	-30		-55		7			20	MS
Barium	137	75.1344		72.0130		84.7581		9.7870	10.0806	MG/KG	-32		95		16			20	MS
Beryllium	9	0.4182		1.0932		1.1829		0.7830	0.8065	MG/KG	86		95		8		75 - 125	20	MS
Boron		0.3593	U	178.0151		187.9923		201.6129	195.7407	MG/KG	88		96		5		84 - 115	20	P
Cadmium	111	2.3867		2.7345		3.0645		0.9787	1.0081	MG/KG	36	N	67	N	11		75 - 125	20	MS
Calcium		6818.9147		5612.6774		9066.9365		403.2258	391.4814	MG/KG	-299		574		47	*		20	P
Chromium	52	34.4086		51.4994		45.9274		9.7870	10.0806	MG/KG	175	N	114		11		75 - 125	20	MS
Cobalt	59	9.8214		54.3963		58.3669		48.9352	50.4032	MG/KG	91		96		7		75 - 125	20	MS
Copper	63	50.2880		67.9024		54.8185		9.7870	10.0806	MG/KG	180		45		21	*		20	MS
Iron		27817.6451		45528.3165		31246.0363		100.8065	97.8703	MG/KG	17569		3503		37	*		20	P
Lead	208	78.2834		125.4698		83.7298		2.9361	3.0242	MG/KG	1607		180		40	*		20	MS
Lithium		17.0742		115.3730		116.4324		100.8065	97.8703	MG/KG	98		102		1		82 - 114	20	P
Magnesium		4419.8249		4616.4677		4458.0870		201.6129	195.7407	MG/KG	98		20		3			20	P
Manganese		335.9400		381.7782		478.2513		50.4032	48.9352	MG/KG	91		291		22	*		20	P
Mercury		0.4130		0.5772		0.5430		0.1630	0.1671	MG/KG	101		78		6		65 - 135	20	CV
Molybdenum	98	5.6260		27.7169		16.3387		9.7870	10.0806	MG/KG	226	N	106		52	*	75 - 125	20	MS
Nickel	60	17.5000		24.6046		35.7661		9.7870	10.0806	MG/KG	73	N	181	N	37	*	75 - 125	20	MS
Phosphorus		517.5663		853.2964		587.1134		100.8065	97.8703	MG/KG	333		71		37	*		20	P
Potassium		2514.6868		3387.7591		3532.9099		1008.0645	978.7034	MG/KG	87		104		4		75 - 125	20	P
Selenium	78	0.3184	B	2.2667		2.2137		1.9574	2.0161	MG/KG	100		94		2		75 - 125	20	MS
Silver	107	0.1966		9.4582		10.1331		9.7870	10.0806	MG/KG	95		99		7		75 - 125	20	MS
Sodium		192.5942		1181.5282		1249.7543		1008.0645	978.7034	MG/KG	98		108		6		75 - 125	20	P
Strontium		30.5943		120.1512		130.7606		100.8065	97.8703	MG/KG	89		102		8		75 - 115	20	P
Thallium	203	0.1934		0.5471		0.5319		0.3915	0.4032	MG/KG	90		84		3		75 - 125	20	MS
Tin		4.7858	B	378.0433		381.6151		403.2258	391.4814	MG/KG	93		96		1		80 - 110	20	P
Titanium		705.5121		1027.2706		1004.8632		97.8703	97.8703	MG/KG	329		306		2			20	P
Vanadium	51	36.0023		40.7924		54.0726		9.7870	10.0806	MG/KG	49	N	179	N	28	*	75 - 125	20	MS
Zinc	66	795.8909		613.3534		729.1331		9.7870	10.0806	MG/KG	-1865		-662		17			20	MS
Zirconium		4.8786	B	99.2056		102.0494		100.8065	97.8703	MG/KG	94		99		3		75 - 125	20	P

RPD out
RPD
RPD
RPD

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

CSXBL

Background Lab Sample ID: 6340796BKG
% Solids for Duplicate: 99.1
Batch ID(s): P19408D, P19426B, P19411G, P20408A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6340799DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			11183.5985		10657.1078		5		P
Antimony	121		1.2849		2.2100		53	*	MS
Arsenic	75		8.2373		7.2522		13		MS
Barium	137		75.1344		84.7162		12		MS
Beryllium	9	0.1	0.4182		0.3877		8		MS
Boron			0.3593	U	0.3489	U			P
Cadmium	111		2.3867		2.4368		2		MS
Calcium			6818.9147		8287.0997		19		P
Chromium	52		34.4086		40.5940		16		MS
Cobalt	59		9.8214		10.3831		6		MS
Copper	63		50.2880		62.9459		22	*	MS
Iron			27817.6451		22313.3317		22	*	P
Lead	208		78.2834		143.9400		59	*	MS
Lithium			17.0742		16.4159		4		P
Magnesium			4419.8249		4262.5271		4		P
Manganese			335.9400		261.8913		25	*	P
Mercury		0.1	0.4130		0.2712		41	*	CV
Molybdenum	98		5.6260		22.2162		119	*	MS
Nickel	60		17.5000		18.0114		3		MS
Phosphorus			517.5663		522.1038		1		P
Potassium			2514.6868		2458.6345		2		P
Selenium	78		0.3184	B	0.2099	B	41		MS
Silver	107	0.1	0.1966		0.1021		63		MS
Sodium		99.8	192.5942		153.3557		23		P
Strontium			30.5943		27.2148		12		P
Thallium	203	0.1	0.1934		0.1581		20		MS
Tin			4.7858	B	4.0778	B	16		P
Titanium			705.5121		664.0867		6		P
Vanadium	51		36.0023		35.9801		0		MS
Zinc	66		795.8909		703.2219		12		MS
Zirconium			4.8786	B	4.0894	B	18		P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6340796BKG Serial Dilution Lab Sample ID: 6340796L
Batch ID(s): P19408D, P19426B, P20408A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		112050.7100		117261.5000		5		P
Antimony	121	6.6920		5.5000		18		MS
Arsenic	75	42.9000		44.1950		3		MS
Barium	137	391.3000		393.1000		0		MS
Beryllium	9	2.1780		2.1235	B	3		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	12.4300		13.3800		8		MS
Calcium		68320.0700		73247.5000		7		P
Chromium	52	179.2000		172.7500		4		MS
Cobalt	59	51.1500		49.4950		3		MS
Copper	63	261.9000		270.9000		3		MS
Iron		55742.1100		57651.1500		3		P
Lead	208	407.7000		418.9500		3		MS
Lithium		171.0700		189.5500		11		P
Magnesium		44283.1100		47070.4000		6		P
Manganese		3365.8500		3495.8000		4		P
Molybdenum	98	29.3000		28.6700		2		MS
Nickel	60	91.1400		95.7500		5		MS
Phosphorus		5185.6000		5397.8500		4		P
Potassium		25195.1500		26800.7000		6		P
Selenium	78	1.6580	B	1.4500	U	100		MS
Silver	107	1.0240		1.1730	B	15		MS
Sodium		1929.6400		1956.5500	B	1		P
Strontium		306.5300		310.3500		1		P
Thallium	203	1.0070		0.8670	B	14		MS
Tin		47.9500	B	47.1000	B	2		P
Titanium		7208.6400		7324.1500		2		P
Vanadium	51	187.5000		191.0000		2		MS
Zinc	66	829.0000		720.5000		13	E	MS
Zirconium		48.8800	B	46.5000	B	5		P

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

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

CONCENTRATION QUALIFIERS: DE197 4212
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE198

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3050B	6010B	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3050B	6020	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3060A	7199	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8015B	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8015M	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8081A	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8082	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8151A	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8270C	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	3550B	8270C SIM	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	METHOD	300.0	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	METHOD	314.0	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	METHOD	7471A	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	METHOD	8015B	III
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342219	N	METHOD	8015M	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3050B	6010B	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3050B	6020	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3060A	7199	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8015B	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8015M	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8081A	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8082	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8151A	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8270C	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	3550B	8270C SIM	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	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
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	METHOD	314.0	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	METHOD	7471A	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	METHOD	8015B	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342218	N	METHOD	8015M	III
12-Jul-2011	TB-071211	6342217	TB	5030B	8015M	III
12-Jul-2011	TB-071211	6342217	TB	5030B	8260B	III
12-Jul-2011	TB-071211	6342217	TB	5030B	8260B SIM	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3050B	6010B	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3050B	6020	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3060A	7199	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8015B	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8015M	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8081A	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8082	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8151A	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8270C	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	3550B	8270C SIM	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	METHOD	300.0	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	METHOD	314.0	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	METHOD	7471A	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	METHOD	8015B	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342224	N	METHOD	8015M	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3060A	7199	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	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
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3550B	8015M	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3550B	8082	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3550B	8270C	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	3550B	8270C SIM	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	5035	8015M	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	5035	8260B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	5035	8260B SIM	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	METHOD	300.0	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	METHOD	314.0	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	METHOD	7471A	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	METHOD	8015B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342209	N	METHOD	8015M	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221100A	DUP	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221100B	DUP	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221100C	DUP	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221100D	DUP	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221339	DUP	METHOD	7471A	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221640	DUP	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D221946	DUP	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D271234A	DUP	METHOD	300.0	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D271358A	DUP	METHOD	314.0	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0DUP	P342209D271610A	DUP	3060A	7199	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221106A	MSD	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221106B	MSD	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221106C	MSD	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221106D	MSD	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
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221341	MSD	METHOD	7471A	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221648	MSD	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M221955	MSD	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M241649A	MSD	3550B	8082	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M262210	MSD	3550B	8270C SIM	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M262258	MSD	3550B	8270C	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M321748A	MSD	3550B	8015B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MSD	P342209M321850A	MSD	METHOD	8015M	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221207A	MS	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221207B	MS	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221207C	MS	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221207D	MS	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221340	MS	METHOD	7471A	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221644	MS	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R221950	MS	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R241631A	MS	3550B	8082	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R262138	MS	3550B	8270C SIM	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R262233	MS	3550B	8270C	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R271248A	MS	METHOD	300.0	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R271421A	MS	METHOD	314.0	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R271533A	MS	3060A	7199	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R321704A	MS	3550B	8015B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0MS	P342209R321837A	MS	METHOD	8015M	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3050B	6010B	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3050B	6020	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	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
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3550B	8015B	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3550B	8015M	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3550B	8082	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3550B	8270C	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	3550B	8270C SIM	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	5035	8015M	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	METHOD	300.0	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	METHOD	314.0	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	METHOD	7471A	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	METHOD	8015B	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342210	N	METHOD	8015M	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3050B	6010B	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3050B	6020	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3060A	7199	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8015B	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8015M	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8081A	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8082	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8151A	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8270C	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	3550B	8270C SIM	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	METHOD	300.0	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	METHOD	314.0	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	METHOD	7471A	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	METHOD	8015B	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342220	N	METHOD	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jul-2011	SL-098-SA6-SS-0.0-0.5DUP	P342220D271553B	DUP	METHOD	300.0	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5DUP	P342220D271921B	DUP	METHOD	314.0	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5MS	P342220R271607B	MS	METHOD	300.0	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5MS	P342220R271944B	MS	METHOD	314.0	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3050B	6010B	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3050B	6020	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3060A	7199	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8015B	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8015M	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8081A	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8082	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8151A	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8270C	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	3550B	8270C SIM	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	METHOD	300.0	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	METHOD	314.0	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	METHOD	7471A	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	METHOD	8015B	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342221	N	METHOD	8015M	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3050B	6010B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3050B	6020	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3060A	7199	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3550B	8015B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3550B	8015M	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3550B	8082	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	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
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	3550B	8270C SIM	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	5035	8015M	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	5035	8260B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	5035	8260B SIM	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	METHOD	300.0	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	METHOD	314.0	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	METHOD	7471A	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	METHOD	8015B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342211	N	METHOD	8015M	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3050B	6010B	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3050B	6020	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3060A	7199	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3550B	8015B	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3550B	8015M	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3550B	8082	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3550B	8270C	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	3550B	8270C SIM	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	5035	8015M	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	METHOD	300.0	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	METHOD	314.0	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	METHOD	7471A	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	METHOD	8015B	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342212	N	METHOD	8015M	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3050B	6010B	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3050B	6020	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	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
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8015B	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8015M	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8081A	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8082	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8151A	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8270C	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	3550B	8270C SIM	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	METHOD	300.0	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	METHOD	314.0	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	METHOD	7471A	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	METHOD	8015B	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342222	N	METHOD	8015M	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3050B	6010B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3050B	6020	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3060A	7199	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3550B	8015B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3550B	8015M	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3550B	8082	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3550B	8270C	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	3550B	8270C SIM	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	5035	8015M	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	5035	8260B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	5035	8260B SIM	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	METHOD	300.0	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	METHOD	314.0	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	METHOD	7471A	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	METHOD	8015B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342213	N	METHOD	8015M	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3050B	6010B	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3050B	6020	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3060A	7199	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3550B	8015B	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3550B	8015M	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3550B	8082	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3550B	8270C	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	3550B	8270C SIM	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	5035	8015M	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	METHOD	300.0	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	METHOD	314.0	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	METHOD	7471A	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	METHOD	8015B	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342214	N	METHOD	8015M	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3050B	6010B	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3050B	6020	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3060A	7199	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3550B	8015B	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3550B	8015M	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3550B	8081A	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3550B	8082	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3550B	8151A	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	3550B	8270C	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	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
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	METHOD	300.0	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	METHOD	314.0	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	METHOD	7471A	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	METHOD	8015B	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342223	N	METHOD	8015M	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3005A	6010B	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3020A	6020	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3510C	8015B	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3510C	8015M	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3510C	8081A	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3510C	8082	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3510C	8270C	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3510C	8270C SIM	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	3520C	1625C	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	8330	8330A	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	Gen Prep	300.0	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	Gen Prep	314.0	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	Gen Prep	7199	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	Gen Prep	8015B	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	Gen Prep	8015M	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	METHOD	7470A	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	METHOD	8151A	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	METHOD	8315A	III
12-Jul-2011	EB-SA6-SS-071211	6342225	EB	METHOD	9012B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3050B	6010B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3050B	6020	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3060A	7199	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3546	1625C	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3550B	8015B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3550B	8015M	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3550B	8082	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3550B	8270C	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	3550B	8270C SIM	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	5035	8015M	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	5035	8260B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	5035	8260B SIM	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	METHOD	300.0	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	METHOD	314.0	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	METHOD	7471A	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	METHOD	8015B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	METHOD	8015M	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342215	N	METHOD	8315A	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0MSD	P342215M242246A	MSD	METHOD	8315A	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0MSD	P342215M261524	MSD	3546	1625C	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0MS	P342215R242237A	MS	METHOD	8315A	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0MS	P342215R261505	MS	3546	1625C	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3050B	6010B	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3050B	6020	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3060A	7199	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3546	1625C	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3550B	8015B	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	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
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3550B	8082	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3550B	8270C	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	3550B	8270C SIM	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	5035	8015M	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	METHOD	300.0	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	METHOD	314.0	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	METHOD	7471A	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	METHOD	8015B	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	METHOD	8015M	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342216	N	METHOD	8315A	III

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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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-098-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 8:42:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-109-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 9:43:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-110-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-136-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 8:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.95	J	0.88	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-136-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-139-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.90	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		1.0	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.79	MDL	0.99	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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: AQ**

Sample ID: EB-SA6-SS-071211 *Collected:* 7/12/2011 1:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0072	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0775	J	0.0705	MDL	0.200	PQL	mg/L	J	Z
IRON	0.0154	J	0.0141	MDL	0.200	PQL	mg/L	J	Z
STRONTIUM	0.00050	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.28	J	0.352	MDL	4.89	PQL	mg/Kg	J	Z
SODIUM	80.3	J	5.82	MDL	97.8	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	899		0.0722	MDL	1.02	PQL	mg/Kg	J	A

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2600		11.1	MDL	48.9	PQL	mg/Kg	J	Q
TIN	2.18	J	0.313	MDL	9.78	PQL	mg/Kg	U	B
Zirconium	2.41	J	0.450	MDL	4.89	PQL	mg/Kg	U	B

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1060		0.0698	MDL	0.983	PQL	mg/Kg	J	A

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3160		11.1	MDL	49.2	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-109-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 9:43:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.28	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	2.92	J	0.452	MDL	4.92	PQL	mg/Kg	U	B

Sample ID: SL-110-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 10:20:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.45	J	0.352	MDL	4.90	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 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
TITANIUM	1050		0.0702	MDL	0.989	PQL	mg/Kg	J	A

Sample ID: SL-110-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2650		11.1	MDL	49.0	PQL	mg/Kg	J	Q
TIN	2.63	J	0.313	MDL	9.79	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.450	MDL	4.90	PQL	mg/Kg	U	B

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.366	MDL	5.08	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1150		0.0715	MDL	1.01	PQL	mg/Kg	J	A

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3130		11.5	MDL	50.8	PQL	mg/Kg	J	Q
TIN	3.07	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.94	J	0.468	MDL	5.08	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-136-SA6-SB-4.0-5.0 **Collected:** 7/12/2011 8:25:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.04	J	0.383	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA6-SB-4.0-5.0 **Collected:** 7/12/2011 8:25:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1170		0.0779	MDL	1.10	PQL	mg/Kg	J	A

Sample ID: SL-136-SA6-SB-4.0-5.0 **Collected:** 7/12/2011 8:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1830		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	3.06	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.72	J	0.490	MDL	5.32	PQL	mg/Kg	U	B

Sample ID: SL-136-SA6-SB-9.0-10.0 **Collected:** 7/12/2011 8:35:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.26	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
SODIUM	102	J	6.42	MDL	108	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA6-SB-9.0-10.0 **Collected:** 7/12/2011 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
TITANIUM	1120		0.0766	MDL	1.08	PQL	mg/Kg	J	A

Sample ID: SL-136-SA6-SB-9.0-10.0 **Collected:** 7/12/2011 8:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2470		12.2	MDL	53.9	PQL	mg/Kg	J	Q
TIN	3.58	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.06	J	0.496	MDL	5.39	PQL	mg/Kg	U	B

Sample ID: SL-139-SA6-SB-4.0-5.0 **Collected:** 7/12/2011 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
BORON	4.92	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-139-SA6-SB-4.0-5.0 **Collected: 7/12/2011 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	106	J	6.53	MDL	110	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA6-SB-4.0-5.0 **Collected: 7/12/2011 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	1140		0.0772	MDL	1.09	PQL	mg/Kg	J	A

Sample ID: SL-139-SA6-SB-4.0-5.0 **Collected: 7/12/2011 9:45:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2230		12.4	MDL	54.9	PQL	mg/Kg	J	Q
TIN	2.83	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.61	J	0.505	MDL	5.49	PQL	mg/Kg	U	B

Sample ID: SL-139-SA6-SB-9.0-10.0 **Collected: 7/12/2011 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
BORON	4.46	J	0.393	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA6-SB-9.0-10.0 **Collected: 7/12/2011 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	1070		0.0798	MDL	1.12	PQL	mg/Kg	J	A

Sample ID: SL-139-SA6-SB-9.0-10.0 **Collected: 7/12/2011 9:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1140		12.3	MDL	54.5	PQL	mg/Kg	J	Q
TIN	2.83	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.39	J	0.502	MDL	5.45	PQL	mg/Kg	U	B

Sample ID: SL-275-SA6-SB-4.0-5.0 **Collected: 7/12/2011 11:55:00** **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	0.382	MDL	5.31	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1120		0.0746	MDL	1.05	PQL	mg/Kg	J	A

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3210		12.0	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.76	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.24	J	0.488	MDL	5.31	PQL	mg/Kg	U	B

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.34	J	0.385	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1210		0.0775	MDL	1.09	PQL	mg/Kg	J	A

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2300		12.1	MDL	53.5	PQL	mg/Kg	J	Q
TIN	2.88	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.70	J	0.492	MDL	5.35	PQL	mg/Kg	U	B

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.82	J	0.382	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1140		0.0762	MDL	1.07	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2570		12.0	MDL	53.1	PQL	mg/Kg	J	Q
TIN	2.77	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.62	J	0.489	MDL	5.31	PQL	mg/Kg	U	B

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.53	J	0.383	MDL	5.32	PQL	mg/Kg	U	F

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1050		0.0741	MDL	1.04	PQL	mg/Kg	J	A

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1820		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.60	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.490	MDL	5.32	PQL	mg/Kg	U	B

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
BORON	4.77	J	0.363	MDL	5.05	PQL	mg/Kg	J	Z
SODIUM	91.7	J	6.01	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	630		0.0717	MDL	1.01	PQL	mg/Kg	J	A

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2030		11.4	MDL	50.5	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-289-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 3:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.90	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.464	MDL	5.05	PQL	mg/Kg	U	B

Sample ID: SL-290-SA6-SS-0.0-0.5 **Collected:** 7/12/2011 8:00:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	68.5	J	5.77	MDL	96.9	PQL	mg/Kg	J	Z

Sample ID: SL-290-SA6-SS-0.0-0.5 **Collected:** 7/12/2011 8:00:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1080		0.0716	MDL	1.01	PQL	mg/Kg	J	A

Sample ID: SL-290-SA6-SS-0.0-0.5 **Collected:** 7/12/2011 8:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3000		10.9	MDL	48.4	PQL	mg/Kg	J	Q
TIN	2.71	J	0.310	MDL	9.69	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.446	MDL	4.84	PQL	mg/Kg	U	B

Sample ID: SL-291-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 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	997		0.0689	MDL	0.971	PQL	mg/Kg	J	A

Sample ID: SL-291-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 3:29:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3320		11.1	MDL	49.0	PQL	mg/Kg	J	Q
TIN	3.48	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.88	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, E

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.568		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.2		0.107	MDL	0.403	PQL	mg/Kg	J	E, A

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.244		0.0745	MDL	0.201	PQL	mg/Kg	J	Q, E
ARSENIC	5.22		0.0806	MDL	0.403	PQL	mg/Kg	J	E, A
BERYLLIUM	0.415		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.224		0.0443	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	18.9		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E, A
COBALT	6.54		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E, A
COPPER	10.5		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	6.10		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E, A
NICKEL	12.0		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E, A
SILVER	0.0280	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.167		0.0302	MDL	0.101	PQL	mg/Kg	UJ	Q, E, B
VANADIUM	42.9		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E, A
ZINC	50.7		0.564	MDL	3.02	PQL	mg/Kg	J	E

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	398		2.78	MDL	14.9	PQL	mg/Kg	J	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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, E

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *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		0.0496	MDL	0.0993	PQL	mg/Kg	J	Q, E

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.105	MDL	0.397	PQL	mg/Kg	J	E, A

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.399		0.0735	MDL	0.199	PQL	mg/Kg	J	Q, E
ARSENIC	8.89		0.0794	MDL	0.397	PQL	mg/Kg	J	E, A
BERYLLIUM	0.862		0.0159	MDL	0.0993	PQL	mg/Kg	J	Q, E
CADMIUM	0.937		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q, E
CHROMIUM	32.3		0.119	MDL	0.397	PQL	mg/Kg	J	Q, E, A
COBALT	12.3		0.0199	MDL	0.0993	PQL	mg/Kg	J	Q, E, A
COPPER	20.9		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
LEAD	19.8		0.0101	MDL	0.199	PQL	mg/Kg	J	Q, E, A
NICKEL	29.5		0.0993	MDL	0.397	PQL	mg/Kg	J	Q, E, A
SILVER	0.0455	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.395		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q, E
VANADIUM	91.2		0.0218	MDL	0.0993	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	558		2.85	MDL	15.3	PQL	mg/Kg	J	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 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	0.192	J	0.0591	MDL	0.407	PQL	mg/Kg	J	Z, E

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 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	0.517		0.0509	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 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
BARIUM	93.6		0.108	MDL	0.407	PQL	mg/Kg	J	E, A

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0754	MDL	0.204	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.31		0.0815	MDL	0.407	PQL	mg/Kg	J	E, A
BERYLLIUM	0.673		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	2.03		0.0448	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	21.8		0.122	MDL	0.407	PQL	mg/Kg	J	Q, E, A
COBALT	9.03		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E, A
COPPER	13.0		0.0815	MDL	0.407	PQL	mg/Kg	J	Q, E
LEAD	15.6		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, A
NICKEL	17.6		0.102	MDL	0.407	PQL	mg/Kg	J	Q, E, A
SILVER	0.0718	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.315		0.0305	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	49.9		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-113-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 12:08:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	150		1.44	MDL	7.70	PQL	mg/Kg	J	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z, E

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.852		0.0513	MDL	0.103	PQL	mg/Kg	J	Q, E

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	104		0.109	MDL	0.411	PQL	mg/Kg	J	E, A

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.52		0.0760	MDL	0.205	PQL	mg/Kg	J	Q, E
ARSENIC	4.82		0.0821	MDL	0.411	PQL	mg/Kg	J	E, A
BERYLLIUM	0.652		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.697		0.0452	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	28.7		0.123	MDL	0.411	PQL	mg/Kg	J	Q, E, A
COBALT	7.89		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E, A
COPPER	15.8		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, E
LEAD	16.9		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, E, A
NICKEL	18.4		0.103	MDL	0.411	PQL	mg/Kg	J	Q, E, A
SILVER	0.0926	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.251		0.0308	MDL	0.103	PQL	mg/Kg	J	Q, E
VANADIUM	53.1		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, A

Sample ID: SL-136-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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	0.0830	J	0.0612	MDL	0.422	PQL	mg/Kg	J	Z, 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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-136-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 8:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.843		0.0527	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-136-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 8:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.4		0.112	MDL	0.422	PQL	mg/Kg	J	E, A

Sample ID: SL-136-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 8:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.0780	MDL	0.211	PQL	mg/Kg	J	Z, Q, E
ARSENIC	19.6		0.0843	MDL	0.422	PQL	mg/Kg	J	E, A
BERYLLIUM	0.839		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.0505	J	0.0464	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	20.4		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E, A
COBALT	7.09		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	5.85		0.0843	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	5.95		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, E, A
NICKEL	11.8		0.105	MDL	0.422	PQL	mg/Kg	J	Q, E, A
SILVER	0.0467	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.309		0.0316	MDL	0.105	PQL	mg/Kg	J	Q, E
VANADIUM	41.8		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E, A
ZINC	49.3		0.590	MDL	3.16	PQL	mg/Kg	J	E

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 8:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0700	J	0.0626	MDL	0.431	PQL	mg/Kg	J	Z, E

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 8:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.844		0.0539	MDL	0.108	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: DE198 Laboratory: LL

EDD Filename: PrepDE198_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 8:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.0		0.114	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 8:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0798	MDL	0.216	PQL	mg/Kg	J	Z, Q, E
ARSENIC	18.7		0.0863	MDL	0.431	PQL	mg/Kg	J	E, A
BERYLLIUM	0.811		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.0517	J	0.0475	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	19.3		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E, A
COBALT	7.78		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	7.26		0.0863	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	5.79		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E, A
NICKEL	12.5		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E, A
SILVER	0.0689	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.288		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	40.6		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E, A
ZINC	48.0		0.604	MDL	3.24	PQL	mg/Kg	J	E

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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	0.0772	J	0.0624	MDL	0.431	PQL	mg/Kg	J	Z, E

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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	0.877		0.0538	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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
BARIUM	126		0.114	MDL	0.431	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-139-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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	0.127	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, Q, E
ARSENIC	17.9		0.0861	MDL	0.431	PQL	mg/Kg	J	E, A
BERYLLIUM	0.921		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.0859	J	0.0474	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	20.9		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E, A
COBALT	7.49		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	7.37		0.0861	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	6.00		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, A
NICKEL	14.3		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E, A
SILVER	0.0658	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.305		0.0323	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	46.0		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E, A
ZINC	50.3		0.603	MDL	3.23	PQL	mg/Kg	J	E

Sample ID: SL-139-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 9:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

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

Sample ID: SL-139-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 9:55:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.492		0.0551	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-139-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 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	61.9		0.117	MDL	0.441	PQL	mg/Kg	J	E, A

Sample ID: SL-139-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0815	MDL	0.220	PQL	mg/Kg	J	Z, Q, E
ARSENIC	17.5		0.0881	MDL	0.441	PQL	mg/Kg	J	E, A
BERYLLIUM	0.721		0.0176	MDL	0.110	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-139-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0485	U	0.0485	MDL	0.110	PQL	mg/Kg	UJ	E
CHROMIUM	22.6		0.132	MDL	0.441	PQL	mg/Kg	J	Q, E, A
COBALT	3.65		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E, A
COPPER	5.88		0.0881	MDL	0.441	PQL	mg/Kg	J	Q, E
LEAD	6.16		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E, A
NICKEL	8.87		0.110	MDL	0.441	PQL	mg/Kg	J	Q, E, A
SILVER	0.0604	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.251		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	39.9		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, E, A
ZINC	41.8		0.617	MDL	3.30	PQL	mg/Kg	J	E

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0604	MDL	0.416	PQL	mg/Kg	J	Z, E

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.05		0.0520	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.110	MDL	0.416	PQL	mg/Kg	J	E, A

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0770	MDL	0.208	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.89		0.0832	MDL	0.416	PQL	mg/Kg	J	E, A
BERYLLIUM	0.979		0.0166	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.0783	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	21.7		0.125	MDL	0.416	PQL	mg/Kg	J	Q, E, A
COBALT	8.65		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-275-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 11:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.64		0.0832	MDL	0.416	PQL	mg/Kg	J	Q, E
LEAD	7.65		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E, A
NICKEL	15.7		0.104	MDL	0.416	PQL	mg/Kg	J	Q, E, A
SILVER	0.0584	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.412		0.0312	MDL	0.104	PQL	mg/Kg	J	Q, E
VANADIUM	47.2		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E, A
ZINC	72.8		0.583	MDL	3.12	PQL	mg/Kg	J	E

Sample ID: SL-275-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 12:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0659	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z, E

Sample ID: SL-275-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 12:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.895		0.0546	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-275-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 12:05:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	66.6		0.116	MDL	0.437	PQL	mg/Kg	J	E, A

Sample ID: SL-275-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 12:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.41		0.0873	MDL	0.437	PQL	mg/Kg	J	E, A
BERYLLIUM	0.853		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.0480	U	0.0480	MDL	0.109	PQL	mg/Kg	UJ	E
CHROMIUM	18.7		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E, A
COBALT	5.06		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E, A
COPPER	5.71		0.0873	MDL	0.437	PQL	mg/Kg	J	Q, E
LEAD	5.79		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E, A
NICKEL	8.21		0.109	MDL	0.437	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-275-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 12:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0461	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.263		0.0327	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	32.3		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, E, A
ZINC	50.8		0.611	MDL	3.27	PQL	mg/Kg	J	E

Sample ID: SL-276-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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	0.159	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z, E

Sample ID: SL-276-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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	0.928		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-276-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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	97.9		0.113	MDL	0.425	PQL	mg/Kg	J	E, A

Sample ID: SL-276-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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	0.406		0.0786	MDL	0.212	PQL	mg/Kg	J	Q, E
ARSENIC	5.18		0.0850	MDL	0.425	PQL	mg/Kg	J	E, A
BERYLLIUM	0.644		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.650		0.0467	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	22.6		0.127	MDL	0.425	PQL	mg/Kg	J	Q, E, A
COBALT	7.30		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	14.0		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	10.9		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E, A
NICKEL	14.0		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E, A
SILVER	0.0350	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.228		0.0319	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	44.1		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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
ZINC	174		0.595	MDL	3.19	PQL	mg/Kg	J	E

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0624	U	0.0624	MDL	0.430	PQL	mg/Kg	UJ	E

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.427		0.0538	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	72.7		0.114	MDL	0.430	PQL	mg/Kg	J	E, A

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0797	J	0.0796	MDL	0.215	PQL	mg/Kg	J	Z, Q, E
ARSENIC	3.60		0.0860	MDL	0.430	PQL	mg/Kg	J	E, A
BERYLLIUM	0.517		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.0473	U	0.0473	MDL	0.108	PQL	mg/Kg	UJ	E
CHROMIUM	15.4		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E, A
COBALT	3.87		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	6.18		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, E
LEAD	4.05		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, A
NICKEL	9.17		0.108	MDL	0.430	PQL	mg/Kg	J	Q, E, A
SILVER	0.0209	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.224		0.0323	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	32.9		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E, A
ZINC	37.7		0.602	MDL	3.23	PQL	mg/Kg	J	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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	0.0762	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, E

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.635		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q, E

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	108		0.105	MDL	0.396	PQL	mg/Kg	J	E, A

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	0.310		0.0732	MDL	0.198	PQL	mg/Kg	J	Q, E
ARSENIC	4.86		0.0792	MDL	0.396	PQL	mg/Kg	J	E, A
BERYLLIUM	0.322		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q, E
CADMIUM	0.342		0.0435	MDL	0.0990	PQL	mg/Kg	J	Q, E
CHROMIUM	22.0		0.119	MDL	0.396	PQL	mg/Kg	J	Q, E, A
COBALT	7.04		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q, E, A
COPPER	13.4		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, E
LEAD	2.92		0.0101	MDL	0.198	PQL	mg/Kg	J	Q, E, A
NICKEL	13.4		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, E, A
SILVER	0.0141	U	0.0141	MDL	0.0990	PQL	mg/Kg	UJ	E
THALLIUM	0.111		0.0297	MDL	0.0990	PQL	mg/Kg	UJ	Q, E, B
VANADIUM	55.7		0.0218	MDL	0.0990	PQL	mg/Kg	J	Q, E, A
ZINC	42.3		0.554	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0562	MDL	0.388	PQL	mg/Kg	J	Z, 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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-290-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 8:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.564		0.0484	MDL	0.0969	PQL	mg/Kg	J	Q, E

Sample ID: SL-290-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 8:00:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.4		0.103	MDL	0.388	PQL	mg/Kg	J	E, A

Sample ID: SL-290-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.195		0.0717	MDL	0.194	PQL	mg/Kg	J	Q, E
ARSENIC	6.28		0.0775	MDL	0.388	PQL	mg/Kg	J	E, A
BERYLLIUM	0.481		0.0155	MDL	0.0969	PQL	mg/Kg	J	Q, E
CADMIUM	0.221		0.0426	MDL	0.0969	PQL	mg/Kg	J	Q, E
CHROMIUM	20.2		0.116	MDL	0.388	PQL	mg/Kg	J	Q, E, A
COBALT	6.57		0.0194	MDL	0.0969	PQL	mg/Kg	J	Q, E, A
COPPER	10.5		0.0775	MDL	0.388	PQL	mg/Kg	J	Q, E
LEAD	8.46		0.0099	MDL	0.194	PQL	mg/Kg	J	Q, E, A
NICKEL	12.0		0.0969	MDL	0.388	PQL	mg/Kg	J	Q, E, A
SILVER	0.0422	J	0.0138	MDL	0.0969	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.239		0.0291	MDL	0.0969	PQL	mg/Kg	J	Q, E
VANADIUM	44.2		0.0213	MDL	0.0969	PQL	mg/Kg	J	Q, E, A
ZINC	63.7		0.543	MDL	2.91	PQL	mg/Kg	J	E

Sample ID: SL-291-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 3:29:00 ***Analysis Type:*** REA ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	756		2.72	MDL	14.6	PQL	mg/Kg	J	E

Sample ID: SL-291-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 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	0.777		0.0563	MDL	0.388	PQL	mg/Kg	J	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	23.2		0.0485	MDL	0.0971	PQL	mg/Kg	J	Q, E

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	111		0.103	MDL	0.388	PQL	mg/Kg	J	E, A

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	3.22		0.0718	MDL	0.194	PQL	mg/Kg	J	Q, E
ARSENIC	10.5		0.0776	MDL	0.388	PQL	mg/Kg	J	E, A
BERYLLIUM	0.524		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q, E
CADMIUM	2.05		0.0427	MDL	0.0971	PQL	mg/Kg	J	Q, E
CHROMIUM	27.7		0.116	MDL	0.388	PQL	mg/Kg	J	Q, E, A
COBALT	16.3		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q, E, A
COPPER	76.1		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, E
LEAD	62.5		0.0099	MDL	0.194	PQL	mg/Kg	J	Q, E, A
NICKEL	18.8		0.0971	MDL	0.388	PQL	mg/Kg	J	Q, E, A
SILVER	0.213		0.0138	MDL	0.0971	PQL	mg/Kg	J	Q, E
THALLIUM	0.257		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q, E
VANADIUM	45.9		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q, E, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.20	MDL	1.0	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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-110-SA6-SS-0.0-0.5** ***Collected:*** **7/12/2011 10:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-136-SA6-SB-4.0-5.0** ***Collected:*** **7/12/2011 8:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-136-SA6-SB-9.0-10.0** ***Collected:*** **7/12/2011 8:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-139-SA6-SB-4.0-5.0** ***Collected:*** **7/12/2011 9:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-139-SA6-SB-9.0-10.0** ***Collected:*** **7/12/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-275-SA6-SB-9.0-10.0** ***Collected:*** **7/12/2011 12:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-276-SA6-SB-4.0-5.0** ***Collected:*** **7/12/2011 2:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-276-SA6-SB-9.0-10.0** ***Collected:*** **7/12/2011 2:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0212	J	0.0067	MDL	0.0949	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0788	J	0.0068	MDL	0.0962	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 12:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0457	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0630	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0205	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0197	J	0.0069	MDL	0.0983	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-109-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 9:43:00 ***Analysis Type:*** REA ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	90	J	41	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 10:20:00 ***Analysis Type:*** REA ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	81	J	41	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 8:25:00 ***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)	0.71	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-136-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 8:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-136-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 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
EFH (C30-C40)	0.75	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-139-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 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 (C30-C40)	0.73	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-275-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 11:55:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.58	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-275-SA6-SB-9.0-10.0 ***Collected:*** 7/12/2011 12:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.77	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* REA2 *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	9.4	J	4.3	MDL	13	PQL	mg/Kg	J	Z

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *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)	0.59	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
EFH (C15-C20)	0.96	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:29:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	9.8	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.86	J	0.70	MDL	3.4	PQL	ug/Kg	J	Z
MIREX	3.8	J	1.3	MDL	7.0	PQL	ug/Kg	J	Z

Sample ID: SL-113-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 12:08:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.76		0.069	MDL	0.36	PQL	ug/Kg	J	S
4,4'-DDE	0.15	U	0.15	MDL	0.36	PQL	ug/Kg	R	S
4,4'-DDT	1.7		0.069	MDL	0.36	PQL	ug/Kg	J	S
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	3.5	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-113-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 12:08:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.052	U	0.052	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	0.92		0.069	MDL	0.36	PQL	ug/Kg	J	S
ENDOSULFAN I	0.046	U	0.046	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.30	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z, S
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.67	U	0.67	MDL	0.67	PQL	ug/Kg	R	S
ENDRIN KETONE	1.3		0.069	MDL	0.36	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.074	U	0.074	MDL	0.17	PQL	ug/Kg	R	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	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	R	S
TOXAPHENE	2.3	U	2.3	MDL	6.9	PQL	ug/Kg	R	S

Sample ID: SL-289-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 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'-DDT	0.12	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z
DELTA-BHC	0.058	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.047	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.075	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-290-SA6-SS-0.0-0.5 ***Collected:*** 7/12/2011 8:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S
4,4'-DDE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S
4,4'-DDT	0.85		0.067	MDL	0.34	PQL	ug/Kg	J	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	R	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.40	U	0.40	MDL	0.40	PQL	ug/Kg	R	S
Chlordane	1.4	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.11	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	0.31	U	0.31	MDL	0.34	PQL	ug/Kg	R	S
ENDRIN KETONE	0.47		0.067	MDL	0.34	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.11	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR EPOXIDE	0.064	U	0.064	MDL	0.17	PQL	ug/Kg	R	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	R	S

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:29:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	21	J	6.7	MDL	34	PQL	ug/Kg	J	Z

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:29:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	95	J	40	MDL	170	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	14	J	3.3	MDL	17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-113-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 12:08:00 *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 1242	0.58	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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
AROCLOR 1254	0.59	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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 1254	0.84	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *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	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-113-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 12:08:00 *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	1.0	U	1.0	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *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(G,H,I)PERYLENE	90	J	84	MDL	840	PQL	ug/Kg	J	Z

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	91	J	84	MDL	840	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	190	J	84	MDL	1700	PQL	ug/Kg	J	Z

Sample ID: SL-136-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 8:25:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
Butylbenzylphthalate	21	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	100	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	32	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB-SA6-SS-071211 *Collected:* 7/12/2011 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	0.29	J	0.052	MDL	1.0	PQL	ug/L	U	B
Dimethylphthalate	0.052	U	0.052	MDL	1.0	PQL	ug/L	UJ	E
Di-n-butylphthalate	0.28	J	0.052	MDL	1.0	PQL	ug/L	U	B
NAPHTHALENE	0.050	J	0.031	MDL	0.052	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-098-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	12	J	6.8	MDL	17	PQL	ug/Kg	J	Z, L
BENZO(G,H,I)PERYLENE	8.7	J	6.8	MDL	17	PQL	ug/Kg	J	Z
CHRYSENE	7.2	J	3.4	MDL	17	PQL	ug/Kg	J	Z
Di-n-butylphthalate	67	J	61	MDL	180	PQL	ug/Kg	U	B
FLUORANTHENE	13	J	6.8	MDL	17	PQL	ug/Kg	J	Z
PYRENE	11	J	6.8	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 9:43:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	390	J	310	MDL	920	PQL	ug/Kg	U	B
CHRYSENE	22	J	17	MDL	85	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-113-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 12:08:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	48	J	17	MDL	87	PQL	ug/Kg	J	Z

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.6	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 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	7.7	J	6.7	MDL	20	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.1	J	6.7	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	4.8	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	5.1	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	7.8	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z, L
BENZO(G,H,I)PERYLENE	6.7	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
CHRYSENE	3.9	J	1.8	MDL	9.0	PQL	ug/Kg	J	Z
Di-n-butylphthalate	40	J	33	MDL	98	PQL	ug/Kg	U	B
FLUORANTHENE	5.5	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
PYRENE	5.2	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.5	MDL	20	PQL	ug/Kg	U	B
Di-n-butylphthalate	8.9	J	6.5	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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	8.7	J	6.1	MDL	18	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: DE198 **Laboratory:** LL

EDD Filename: PrepDE198_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 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
Di-n-butylphthalate	8.9	J	6.1	MDL	18	PQL	ug/Kg	U	B

Sample ID: SL-290-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	8.0	J	6.7	MDL	17	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHTHALATE	71	J	60	MDL	180	PQL	ug/Kg	U	B
CHRYSENE	5.2	J	3.4	MDL	17	PQL	ug/Kg	J	Z
Di-n-butylphthalate	67	J	60	MDL	180	PQL	ug/Kg	U	B
FLUORANTHENE	12	J	6.7	MDL	17	PQL	ug/Kg	J	Z
PYRENE	9.1	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-291-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:29:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	11	J	6.7	MDL	17	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	9.9	J	6.7	MDL	17	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	5.8	J	3.4	MDL	17	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1100		6.7	MDL	17	PQL	ug/Kg	J	L
BIS(2-ETHYLHEXYL)PHTHALATE	280		61	MDL	180	PQL	ug/Kg	U	B
Di-n-butylphthalate	100	J	61	MDL	180	PQL	ug/Kg	U	B
NAPHTHALENE	10	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-110-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 10:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S

* 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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-113-SA6-SS-0.0-0.5 **Collected:** 7/12/2011 12:08:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	UJ	S
p-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	UJ	S

Sample ID: SL-290-SA6-SS-0.0-0.5 **Collected:** 7/12/2011 8:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-291-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 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
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S

Sample ID: SL-291-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 3:29:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	100	J	100	MDL	500	PQL	ug/Kg	J	Z
METHANOL	180	J	100	MDL	500	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-136-SA6-SB-4.0-5.0 **Collected:** 7/12/2011 8:25:00 **Analysis Type:** RES **Dilution:** 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	11		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	5.4		0.24	MDL	4.0	PQL	ug/Kg	UJ	L, B
TOLUENE	0.13	J	0.08	MDL	4.0	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: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 9:45:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	9.6		6.4	MDL	7.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	4.2		0.23	MDL	3.8	PQL	ug/Kg	UJ	L, B
TOLUENE	0.1	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1.04

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	12		7.4	MDL	8.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	4.1	J	0.27	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.09	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES *Dilution:* 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	11		7.1	MDL	8.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	4.0	J	0.25	MDL	4.2	PQL	ug/Kg	UJ	L, B
TOLUENE	0.09	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: PrepDE198_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE198

Method Blank Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19648BB220643	7/19/2011 6:43:00 AM	BORON STRONTIUM	0.0043 mg/L 0.00029 mg/L	EB-SA6-SS-071211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071211(REA2)	BORON	0.0072 mg/L	0.0072U mg/L
EB-SA6-SS-071211(REA2)	STRONTIUM	0.00050 mg/L	0.00050U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19508CB221619	7/22/2011 4:19:00 PM	PHOSPHORUS TIN Zirconium	1.30 mg/Kg 1.71 mg/Kg 0.820 mg/Kg	SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-098-SA6-SS-0.0-0.5(RES)	TIN	2.18 mg/Kg	2.18U mg/Kg
SL-098-SA6-SS-0.0-0.5(RES)	Zirconium	2.41 mg/Kg	2.41U mg/Kg
SL-109-SA6-SS-0.0-0.5(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-109-SA6-SS-0.0-0.5(RES)	Zirconium	2.92 mg/Kg	2.92U mg/Kg
SL-110-SA6-SS-0.0-0.5(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-110-SA6-SS-0.0-0.5(RES)	Zirconium	1.44 mg/Kg	1.44U mg/Kg
SL-113-SA6-SS-0.0-0.5(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg
SL-113-SA6-SS-0.0-0.5(RES)	Zirconium	1.94 mg/Kg	1.94U mg/Kg
SL-136-SA6-SB-4.0-5.0(RES)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-136-SA6-SB-4.0-5.0(RES)	Zirconium	2.72 mg/Kg	2.72U mg/Kg
SL-136-SA6-SB-9.0-10.0(RES)	TIN	3.58 mg/Kg	3.58U mg/Kg
SL-136-SA6-SB-9.0-10.0(RES)	Zirconium	3.06 mg/Kg	3.06U mg/Kg
SL-139-SA6-SB-4.0-5.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-139-SA6-SB-4.0-5.0(RES)	Zirconium	2.61 mg/Kg	2.61U mg/Kg
SL-139-SA6-SB-9.0-10.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-139-SA6-SB-9.0-10.0(RES)	Zirconium	1.39 mg/Kg	1.39U mg/Kg
SL-275-SA6-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. 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-275-SA6-SB-4.0-5.0(RES)	Zirconium	3.24 mg/Kg	3.24U mg/Kg
SL-275-SA6-SB-9.0-10.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-275-SA6-SB-9.0-10.0(RES)	Zirconium	2.70 mg/Kg	2.70U mg/Kg
SL-276-SA6-SB-4.0-5.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-276-SA6-SB-4.0-5.0(RES)	Zirconium	3.62 mg/Kg	3.62U mg/Kg
SL-276-SA6-SB-9.0-10.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-276-SA6-SB-9.0-10.0(RES)	Zirconium	2.40 mg/Kg	2.40U mg/Kg
SL-289-SA6-SS-0.0-0.5(RES)	TIN	1.90 mg/Kg	1.90U mg/Kg
SL-289-SA6-SS-0.0-0.5(RES)	Zirconium	2.54 mg/Kg	2.54U mg/Kg
SL-290-SA6-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-290-SA6-SS-0.0-0.5(RES)	Zirconium	2.28 mg/Kg	2.28U mg/Kg
SL-291-SA6-SS-0.0-0.5(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-291-SA6-SS-0.0-0.5(RES)	Zirconium	2.88 mg/Kg	2.88U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE	9.3 ug/Kg	SL-136-SA6-SB-4.0-5.0
		CHLOROFORM	0.14 ug/Kg	SL-139-SA6-SB-4.0-5.0
		METHYLENE CHLORIDE	2.1 ug/Kg	SL-275-SA6-SB-4.0-5.0
		TOLUENE	0.11 ug/Kg	SL-276-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-136-SA6-SB-4.0-5.0(RES)	ACETONE	11 ug/Kg	11U ug/Kg
SL-136-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.4 ug/Kg	5.4U ug/Kg
SL-136-SA6-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	4.0U ug/Kg
SL-139-SA6-SB-4.0-5.0(RES)	ACETONE	9.6 ug/Kg	9.6U ug/Kg
SL-139-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.2 ug/Kg	4.2U ug/Kg
SL-139-SA6-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	3.8U ug/Kg
SL-275-SA6-SB-4.0-5.0(RES)	ACETONE	12 ug/Kg	12U ug/Kg
SL-275-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.1 ug/Kg	4.4U ug/Kg
SL-275-SA6-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	4.4U ug/Kg
SL-276-SA6-SB-4.0-5.0(RES)	ACETONE	11 ug/Kg	11U ug/Kg
SL-276-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.0 ug/Kg	4.2U ug/Kg
SL-276-SA6-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	4.2U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 8270C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWL19B261146	8/1/2011 11:46:00 AM	BENZOIC ACID	83 ug/L	EB-SA6-SS-071211

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH19B260751	7/18/2011 7:51:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	0.21 ug/L 0.22 ug/L	EB-SA6-SS-071211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071211(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.29 ug/L	1.0U ug/L
EB-SA6-SS-071211(RES)	Di-n-butylphthalate	0.28 ug/L	1.0U ug/L

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLJ20B262002	7/21/2011 8:02:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	6.3 ug/Kg 7.8 ug/Kg	SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-098-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	67 ug/Kg	180U ug/Kg
SL-109-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	390 ug/Kg	920U ug/Kg
SL-136-SA6-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.2 ug/Kg	20U ug/Kg
SL-139-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.7 ug/Kg	20U ug/Kg
SL-139-SA6-SB-4.0-5.0(RES)	Di-n-butylphthalate	9.1 ug/Kg	20U ug/Kg
SL-276-SA6-SB-4.0-5.0(RES)	Di-n-butylphthalate	40 ug/Kg	98U ug/Kg
SL-276-SA6-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	7.6 ug/Kg	20U ug/Kg
SL-276-SA6-SB-9.0-10.0(RES)	Di-n-butylphthalate	8.9 ug/Kg	20U ug/Kg
SL-289-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.7 ug/Kg	18U ug/Kg
SL-289-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	8.9 ug/Kg	18U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
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-290-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	71 ug/Kg	180U ug/Kg
SL-290-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	67 ug/Kg	180U ug/Kg
SL-291-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	280 ug/Kg	280U ug/Kg
SL-291-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	100 ug/Kg	180U ug/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SS-071211(REA2)	7/12/2011 1:00:00 PM	BORON	0.0072 mg/L	SL-098-SA6-SS-0.0-0.5
		CALCIUM	0.0775 mg/L	SL-109-SA6-SS-0.0-0.5
		IRON	0.0154 mg/L	SL-110-SA6-SS-0.0-0.5
		STRONTIUM	0.0005 mg/L	SL-113-SA6-SS-0.0-0.5
				SL-136-SA6-SB-4.0-5.0
				SL-136-SA6-SB-9.0-10.0
				SL-139-SA6-SB-4.0-5.0
				SL-139-SA6-SB-9.0-10.0
				SL-275-SA6-SB-4.0-5.0
				SL-275-SA6-SB-9.0-10.0
				SL-276-SA6-SB-4.0-5.0
				SL-276-SA6-SB-9.0-10.0
				SL-289-SA6-SS-0.0-0.5
				SL-290-SA6-SS-0.0-0.5
				SL-291-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-276-SA6-SB-9.0-10.0(REA)	BORON	3.53 mg/Kg	3.53U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_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-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-136-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL	52	54	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	ARSENIC	12	502	75.00-125.00	42 (20.00)	ARSENIC	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	ANTIMONY BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	44 - - - - - - - - - - 54	66 200 140 210 155 172 218 203 139 168 308 287	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	32 (20.00) 48 (20.00) 38 (20.00) 37 (20.00) 40 (20.00) 35 (20.00) 39 (20.00) 38 (20.00) 33 (20.00) 46 (20.00) 39 (20.00) 37 (20.00)	ANTIMONY BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) UJ(all non-detects) Zn, No Qual %R, >4x
SL-136-SA6-SB-4.0-5.0MSD (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	SELENIUM	-	-	75.00-125.00	24 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_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-136-SA6-SB-4.0-5.0MSD (SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5)	MOLYBDENUM	-	152	75.00-125.00	39 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-136-SA6-SB-4.0-5.0MS **SL-136-SA6-SB-4.0-5.0MSD** (SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5)	BARIUM	48	542	75.00-125.00	41 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-136-SA6-SB-4.0-5.0MS	ALUMINUM	1363	1657	75.00-125.00	-	ALUMINUM	
SL-136-SA6-SB-4.0-5.0MSD	POTASSIUM	-	130	75.00-125.00	-	POTASSIUM	
(SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5)							J(all detects) Al, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_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-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	IRON	-505	-196	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
SL-136-SA6-SB-4.0-5.0MSD (SL-136-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	- -	- -	24.00-116.00 10.00-173.00	32 (30.00) 33 (30.00)	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects)
SL-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-136-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-136-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL	12	18	20.00-143.00	39 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-136-SA6-SB-4.0-5.0MS SL-136-SA6-SB-4.0-5.0MSD (SL-136-SA6-SB-4.0-5.0)	DIBENZO(A,H)ANTHRACENE N-NITROSODIMETHYLAMINE BENZO(B)FLORANTHENE	- 117 157	134 116 -	22.00-133.00 48.00-113.00 43.00-155.00	- - -	DIBENZO(A,H)ANTHRACENE N-NITROSODIMETHYLAMINE BENZO(B)FLORANTHENE	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_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-136-SA6-SB-4.0-5.0MS **SL-136-SA6-SB-4.0-5.0MSD** (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	TITANIUM	249	208	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-136-SA6-SB-4.0-5.0MS (SL-136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	FLUORIDE	51	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-098-SA6-SS-0.0-0.5MS (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5)	FLUORIDE	70	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-136-SA6-SB-4.0-5.0DUP (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	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-136-SA6-SB-4.0-5.0DUP (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	ANTIMONY SELENIUM	71 200	20.00 20.00	No Qual OK by Difference

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-136-SA6-SB-4.0-5.0DUP (SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	31	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-136-SA6-SB-4.0-5.0DUP (SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5)	MERCURY	200	20.00	No Qual OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11990AQ242235A P11990AY242318A (EB-SA6-SS-071211)	PETN	121	125	80.00-120.00	-	PETN	J(all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WHLCSY260855 (EB-SA6-SS-071211)	ACENAPHTHYLENE FLUORENE	- -	112 115	70.00-110.00 75.00-114.00	- -	ACENAPHTHYLENE FLUORENE	J(all detects)
P7WHLCSY260855 (EB-SA6-SS-071211)	Dimethylphthalate	-	-	40.00-119.00	45 (30.00)	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WLLCSY261236 (EB-SA6-SS-071211)	2,4,5-TRICHLOROPHENOL	-	109	79.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11953AQ242146A (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	DINOSEB	7	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19526AQ221051A (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	ANTIMONY	143	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19508CQ221623 (SL-098-SA6-SS-0.0-0.5 SL -109-SA6-SS-0.0-0.5 SL -110-SA6-SS-0.0-0.5 SL -113-SA6-SS-0.0-0.5 SL -136-SA6-SB-4.0-5.0 SL -136-SA6-SB-9.0-10.0 SL -139-SA6-SB-4.0-5.0 SL -139-SA6-SB-9.0-10.0 SL -275-SA6-SB-4.0-5.0 SL -275-SA6-SB-9.0-10.0 SL -276-SA6-SB-4.0-5.0 SL -276-SA6-SB-9.0-10.0 SL -289-SA6-SS-0.0-0.5 SL -290-SA6-SS-0.0-0.5 SL -291-SA6-SS-0.0-0.5)	ALUMINUM IRON POTASSIUM	142 129 124	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON POTASSIUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LJLCSQ262034	BENZO(B)FLUORANTHENE	153	-	63.00-143.00	-	BENZO(B)FLUORANTHENE	
(SL-098-SA6-SS-0.0-0.5	INDENO(1,2,3-CD)PYRENE	137	-	56.00-134.00	-	INDENO(1,2,3-CD)PYRENE	
SL -109-SA6-SS-0.0-0.5							
SL -110-SA6-SS-0.0-0.5							
SL -113-SA6-SS-0.0-0.5							
SL -136-SA6-SB-4.0-5.0							
SL -136-SA6-SB-9.0-10.0							
SL -139-SA6-SB-4.0-5.0							
SL -139-SA6-SB-9.0-10.0							J(all detects)
SL -275-SA6-SB-4.0-5.0							
SL -275-SA6-SB-9.0-10.0							
SL -276-SA6-SB-4.0-5.0							
SL -276-SA6-SB-9.0-10.0							
SL -289-SA6-SS-0.0-0.5							
SL -290-SA6-SS-0.0-0.5							
SL -291-SA6-SS-0.0-0.5)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20608AQ221926	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
(SL-098-SA6-SS-0.0-0.5							
SL -109-SA6-SS-0.0-0.5							
SL -110-SA6-SS-0.0-0.5							
SL -113-SA6-SS-0.0-0.5							
SL -136-SA6-SB-4.0-5.0							
SL -136-SA6-SB-9.0-10.0							
SL -139-SA6-SB-4.0-5.0							
SL -139-SA6-SB-9.0-10.0							No Qual, SRM within QC Limits
SL -275-SA6-SB-4.0-5.0							
SL -275-SA6-SB-9.0-10.0							
SL -276-SA6-SB-4.0-5.0							
SL -276-SA6-SB-9.0-10.0							
SL -289-SA6-SS-0.0-0.5							
SL -290-SA6-SS-0.0-0.5							
SL -291-SA6-SS-0.0-0.5)							

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB16Q211423A	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	
LCSB16Y211251A							
(SL-136-SA6-SB-4.0-5.0							
SL -139-SA6-SB-4.0-5.0							J(all detects)
SL -275-SA6-SB-4.0-5.0							
SL -276-SA6-SB-4.0-5.0)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-109-SA6-SS-0.0 -0.5	n-Triacontane-d62	339	50.00-150.00	All Target Analytes	J(all detects)
SL-110-SA6-SS-0.0 -0.5	n-Triacontane-d62	0	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)
SL-113-SA6-SS-0.0 -0.5	n-Triacontane-d62	21	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-291-SA6-SS-0.0 -0.5	n-Triacontane-d62	9	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-110-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	323	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-113-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-290-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-290-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	37	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-110-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	15 17	45.00-120.00 53.00-139.00	All Target Analytes	No Qual, Diluted Out

Method: 8270C SIM
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SS-071211	Nitrobenzene-d5	131	40.00-130.00	No Affected Compounds	J (all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-109-SA6-SS-0.0 -0.5	Nitrobenzene-d5	136	40.00-130.00	No Affected Compounds	J(all detects)
SL-110-SA6-SS-0.0 -0.5	Nitrobenzene-d5	143	40.00-130.00	No Affected Compounds	J(all detects)
SL-113-SA6-SS-0.0 -0.5	Nitrobenzene-d5	188	40.00-130.00	No Affected Compounds	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE198 Laboratory: LL

EDD Filename: DE198_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071211	BORON	J	0.0072	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0775	0.200	PQL	mg/L	
	IRON	J	0.0154	0.200	PQL	mg/L	
	STRONTIUM	J	0.00050	0.0050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071211	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.29	1.0	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.28	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.050	0.052	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-136-SA6-SB-4.0-5.0	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
SL-098-SA6-SS-0.0-0.5	BORON	J	4.28	4.89	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.3	97.8	PQL	mg/Kg	
	TIN	J	2.18	9.78	PQL	mg/Kg	
	Zirconium	J	2.41	4.89	PQL	mg/Kg	
SL-109-SA6-SS-0.0-0.5	TIN	J	3.28	9.83	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.92	4.92	PQL	mg/Kg	
SL-110-SA6-SS-0.0-0.5	BORON	J	4.45	4.90	PQL	mg/Kg	J (all detects)
	TIN	J	2.63	9.79	PQL	mg/Kg	
	Zirconium	J	1.44	4.90	PQL	mg/Kg	
SL-113-SA6-SS-0.0-0.5	BORON	J	4.12	5.08	PQL	mg/Kg	J (all detects)
	TIN	J	3.07	10.2	PQL	mg/Kg	
	Zirconium	J	1.94	5.08	PQL	mg/Kg	
SL-136-SA6-SB-4.0-5.0	BORON	J	5.04	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	10.6	PQL	mg/Kg	
	Zirconium	J	2.72	5.32	PQL	mg/Kg	
SL-136-SA6-SB-9.0-10.0	BORON	J	4.26	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	108	PQL	mg/Kg	
	TIN	J	3.58	10.8	PQL	mg/Kg	
	Zirconium	J	3.06	5.39	PQL	mg/Kg	
SL-139-SA6-SB-4.0-5.0	BORON	J	4.92	5.49	PQL	mg/Kg	J (all detects)
	SODIUM	J	106	110	PQL	mg/Kg	
	TIN	J	2.83	11.0	PQL	mg/Kg	
	Zirconium	J	2.61	5.49	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA6-SB-9.0-10.0	BORON	J	4.46	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.83	10.9	PQL	mg/Kg	
	Zirconium	J	1.39	5.45	PQL	mg/Kg	
SL-275-SA6-SB-4.0-5.0	BORON	J	5.08	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	10.6	PQL	mg/Kg	
	Zirconium	J	3.24	5.31	PQL	mg/Kg	
SL-275-SA6-SB-9.0-10.0	BORON	J	4.34	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	10.7	PQL	mg/Kg	
	Zirconium	J	2.70	5.35	PQL	mg/Kg	
SL-276-SA6-SB-4.0-5.0	BORON	J	4.82	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.6	PQL	mg/Kg	
	Zirconium	J	3.62	5.31	PQL	mg/Kg	
SL-276-SA6-SB-9.0-10.0	BORON	J	3.53	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.60	10.6	PQL	mg/Kg	
	Zirconium	J	2.40	5.32	PQL	mg/Kg	
SL-289-SA6-SS-0.0-0.5	BORON	J	4.77	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.7	101	PQL	mg/Kg	
	TIN	J	1.90	10.1	PQL	mg/Kg	
	Zirconium	J	2.54	5.05	PQL	mg/Kg	
SL-290-SA6-SS-0.0-0.5	SODIUM	J	68.5	96.9	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	9.69	PQL	mg/Kg	
	Zirconium	J	2.28	4.84	PQL	mg/Kg	
SL-291-SA6-SS-0.0-0.5	TIN	J	3.48	9.80	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.88	4.90	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SS-0.0-0.5	SELENIUM	J	0.107	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0280	0.101	PQL	mg/Kg	
SL-109-SA6-SS-0.0-0.5	SELENIUM	J	0.166	0.397	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0455	0.0993	PQL	mg/Kg	
SL-110-SA6-SS-0.0-0.5	ANTIMONY	J	0.133	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.192	0.407	PQL	mg/Kg	
	SILVER	J	0.0718	0.102	PQL	mg/Kg	
SL-113-SA6-SS-0.0-0.5	SELENIUM	J	0.112	0.411	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0926	0.103	PQL	mg/Kg	
SL-136-SA6-SB-4.0-5.0	ANTIMONY	J	0.192	0.211	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0505	0.105	PQL	mg/Kg	
	SELENIUM	J	0.0830	0.422	PQL	mg/Kg	
	SILVER	J	0.0467	0.105	PQL	mg/Kg	
SL-136-SA6-SB-9.0-10.0	ANTIMONY	J	0.102	0.216	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0517	0.108	PQL	mg/Kg	
	SELENIUM	J	0.0700	0.431	PQL	mg/Kg	
	SILVER	J	0.0689	0.108	PQL	mg/Kg	
SL-139-SA6-SB-4.0-5.0	ANTIMONY	J	0.127	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0859	0.108	PQL	mg/Kg	
	SELENIUM	J	0.0772	0.431	PQL	mg/Kg	
	SILVER	J	0.0658	0.108	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA6-SB-9.0-10.0	ANTIMONY	J	0.143	0.220	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0604	0.110	PQL	mg/Kg	
SL-275-SA6-SB-4.0-5.0	ANTIMONY	J	0.160	0.208	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0783	0.104	PQL	mg/Kg	
	SELENIUM	J	0.120	0.416	PQL	mg/Kg	
	SILVER	J	0.0584	0.104	PQL	mg/Kg	
SL-275-SA6-SB-9.0-10.0	ANTIMONY	J	0.134	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0659	0.437	PQL	mg/Kg	
	SILVER	J	0.0461	0.109	PQL	mg/Kg	
SL-276-SA6-SB-4.0-5.0	SELENIUM	J	0.159	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0350	0.106	PQL	mg/Kg	
SL-276-SA6-SB-9.0-10.0	ANTIMONY	J	0.0797	0.215	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0209	0.108	PQL	mg/Kg	
SL-289-SA6-SS-0.0-0.5	SELENIUM	J	0.0762	0.396	PQL	mg/Kg	J (all detects)
SL-290-SA6-SS-0.0-0.5	SELENIUM	J	0.122	0.388	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0422	0.0969	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.53	1.0	PQL	mg/Kg	J (all detects)
SL-109-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.45	1.0	PQL	mg/Kg	J (all detects)
SL-110-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.0	PQL	mg/Kg	J (all detects)
SL-136-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	1.0	1.1	PQL	mg/Kg	J (all detects)
SL-136-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-139-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)
SL-139-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-275-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.80	1.1	PQL	mg/Kg	J (all detects)
SL-276-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.1	PQL	mg/Kg	J (all detects)
SL-276-SA6-SB-9.0-10.0	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
SL-098-SA6-SS-0.0-0.5	MERCURY	J	0.0212	0.0949	PQL	mg/Kg	J (all detects)
SL-110-SA6-SS-0.0-0.5	MERCURY	J	0.0788	0.0962	PQL	mg/Kg	J (all detects)
SL-113-SA6-SS-0.0-0.5	MERCURY	J	0.0457	0.101	PQL	mg/Kg	J (all detects)
SL-276-SA6-SB-4.0-5.0	MERCURY	J	0.0630	0.104	PQL	mg/Kg	J (all detects)
SL-289-SA6-SS-0.0-0.5	MERCURY	J	0.0205	0.100	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE198 | Laboratory: LL

EDD Filename: DE198_v2. | eQAPP Name: CDM_SSFL_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-290-SA6-SS-0.0-0.5	MERCURY	J	0.0197	0.0983	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-290-SA6-SS-0.0-0.5	METHANOL	J	160	500	PQL	ug/Kg	J (all detects)
SL-291-SA6-SS-0.0-0.5	Isopropanol	J	100	500	PQL	ug/Kg	J (all detects)
	METHANOL	J	180	500	PQL	ug/Kg	

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA6-SS-0.0-0.5	EFH (C15-C20)	J	90	120	PQL	mg/Kg	J (all detects)
SL-110-SA6-SS-0.0-0.5	EFH (C15-C20)	J	81	120	PQL	mg/Kg	J (all detects)
SL-136-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.71	1.3	PQL	mg/Kg	J (all detects)
SL-136-SA6-SB-9.0-10.0	EFH (C30-C40)	J	0.75	1.3	PQL	mg/Kg	J (all detects)
SL-139-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.73	1.3	PQL	mg/Kg	J (all detects)
SL-275-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.58	1.3	PQL	mg/Kg	J (all detects)
SL-275-SA6-SB-9.0-10.0	EFH (C30-C40)	J	0.77	1.3	PQL	mg/Kg	J (all detects)
SL-276-SA6-SB-4.0-5.0	EFH (C15-C20)	J	9.4	13	PQL	mg/Kg	J (all detects)
SL-276-SA6-SB-9.0-10.0	EFH (C30-C40)	J	0.59	1.3	PQL	mg/Kg	J (all detects)
SL-289-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.96	1.2	PQL	mg/Kg	J (all detects)
SL-291-SA6-SS-0.0-0.5	EFH (C15-C20)	J	9.8	12	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.86	3.4	PQL	ug/Kg	J (all detects)
	MIREX	J	3.8	7.0	PQL	ug/Kg	
SL-113-SA6-SS-0.0-0.5	Chlordane	J	3.5	3.6	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.30	0.36	PQL	ug/Kg	
SL-289-SA6-SS-0.0-0.5	4,4'-DDT	J	0.12	0.35	PQL	ug/Kg	J (all detects)
	DELTA-BHC	J	0.058	0.17	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.047	0.17	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.075	0.17	PQL	ug/Kg	
SL-290-SA6-SS-0.0-0.5	Chlordane	J	1.4	3.4	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.11	0.34	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.11	0.17	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-291-SA6-SS-0.0-0.5	4,4'-DDT	J	21	34	PQL	ug/Kg	J (all detects)
	Chlordane	J	95	170	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	14	17	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-113-SA6-SS-0.0-0.5	AROCLOR 1242	J	0.58	1.8	PQL	ug/Kg	J (all detects)
SL-275-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.59	1.8	PQL	ug/Kg	J (all detects)
SL-289-SA6-SS-0.0-0.5	AROCLOR 1254	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.4	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-136-SA6-SB-4.0-5.0	TOLUENE	J	0.13	4.0	PQL	ug/Kg	J (all detects)
SL-139-SA6-SB-4.0-5.0	TOLUENE	J	0.1	3.8	PQL	ug/Kg	J (all detects)
SL-275-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	4.1	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	4.4	PQL	ug/Kg	
SL-276-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	4.0	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
SL-109-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	90	840	PQL	ug/Kg	J (all detects)
SL-110-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	91	840	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	190	1700	PQL	ug/Kg	
SL-276-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	360	PQL	ug/Kg	J (all detects)
SL-291-SA6-SS-0.0-0.5	Butylbenzylphthalate	J	21	170	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	100	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	120	170	PQL	ug/Kg	
	DIBENZOFURAN	J	32	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE198 **Laboratory: LL**

EDD Filename: DE198_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	12	17	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	8.7	17	PQL	ug/Kg	
	CHRYSENE	J	7.2	17	PQL	ug/Kg	
	Di-n-butylphthalate	J	67	180	PQL	ug/Kg	
	FLUORANTHENE	J	13	17	PQL	ug/Kg	
	PYRENE	J	11	17	PQL	ug/Kg	
SL-109-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	390	920	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	22	85	PQL	ug/Kg	
SL-113-SA6-SS-0.0-0.5	CHRYSENE	J	48	87	PQL	ug/Kg	J (all detects)
SL-136-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	20	PQL	ug/Kg	J (all detects)
SL-139-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.7	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.1	20	PQL	ug/Kg	
SL-276-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	4.8	9.0	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	5.1	9.0	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	7.8	9.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.7	9.0	PQL	ug/Kg	
	CHRYSENE	J	3.9	9.0	PQL	ug/Kg	
	Di-n-butylphthalate	J	40	98	PQL	ug/Kg	
	FLUORANTHENE	J	5.5	9.0	PQL	ug/Kg	
	PYRENE	J	5.2	9.0	PQL	ug/Kg	
SL-276-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.9	20	PQL	ug/Kg	
SL-289-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.7	18	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.9	18	PQL	ug/Kg	
SL-290-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	8.0	17	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	71	180	PQL	ug/Kg	
	CHRYSENE	J	5.2	17	PQL	ug/Kg	
	Di-n-butylphthalate	J	67	180	PQL	ug/Kg	
	FLUORANTHENE	J	12	17	PQL	ug/Kg	
	PYRENE	J	9.1	17	PQL	ug/Kg	
SL-291-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	11	17	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	9.9	17	PQL	ug/Kg	
	ACENAPHTHYLENE	J	5.8	17	PQL	ug/Kg	
	Di-n-butylphthalate	J	100	180	PQL	ug/Kg	
	NAPHTHALENE	J	10	17	PQL	ug/Kg	

LDC #: 26407Q4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21-11

SDG #: DE198 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CC

2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	D
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=16

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

Validated Samples:

1	SL-136-SA6-SB-4.0-5.0	11	SL-098-SA6-SS-0.0-0.5	21		31	
2	SL-136-SA6-SB-9.0-10.0	12	SL-109-SA6-SS-0.0-0.5	22		32	
3	SL-139-SA6-SB-4.0-5.0	13	SL-110-SA6-SS-0.0-0.5	23		33	
4	SL-139-SA6-SB-9.0-10.0	14	SL-113-SA6-SS-0.0-0.5	24		34	
5	SL-275-SA6-SB-4.0-5.0	15	SL-290-SA6-SS-0.0-0.5	25		35	
6	SL-275-SA6-SB-9.0-10.0	16	EB-SA6-SS-071211	26		36	
7	SL-276-SA6-SB-4.0-5.0	17		27		37	
8	SL-276-SA6-SB-9.0-10.0	18		28		38	
9	SL-289-SA6-SS-0.0-0.5	19		29		39	
10	SL-291-SA6-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26407Q4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

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

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	9	11												
Tl	0.18	0.18	0.11	0.17												

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 #: 26407Q4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: QR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/12/11 Soil factor applied 100x (Hg: 167x)
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification												
		Action Level	8											
B	7.2	3.6	3.5											
Ca	77.5	38.75												
Fe	15.4	7.7												
Sr	0.50	0.25												

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE198
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6342209BKG Matrix Spike Lab Sample ID: 6342209MS Matrix Spike Duplicate Lab Sample ID: 6342209MSD
% Solids for Sample: 91.2
Batch Id(s): P19508C, P19526A, P19511B, P20608A

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		20589.9772		23548.7732		24083.2205		217.1270	210.8637	MG/KG	1363		1657		2			20	P
Antimony	121	0.1921	B	0.7637		1.0552		1.2900	1.3028	MG/KG	44	N	66	N	32	*	75 - 125	20	MS
Arsenic	75	19.6251		19.8787		30.5281		2.1500	2.1713	MG/KG	12		502		42	*		20	MS
Barium	137	98.4101		103.6077		157.2868		10.7499	10.8563	MG/KG	48		542		41	*		20	MS
Beryllium	9	0.8388		1.5822		2.5730		0.8600	0.8685	MG/KG	86		200	N	48	*	75 - 125	20	MS
Boron		5.0364	B	215.4909		207.9169		217.1270	210.8637	MG/KG	97		96		4		84 - 115	20	P
Cadmium	111	0.0505	B	1.0653		1.5664		1.0750	1.0856	MG/KG	94		140	N	38	*	75 - 125	20	MS
Calcium		2071.5445		2531.5464		2517.3467		434.2539	421.7274	MG/KG	106		106		1			20	P
Chromium	52	20.4348		29.6483		43.2517		10.7499	10.8563	MG/KG	86		210	N	37	*	75 - 125	20	MS
Cobalt	59	7.0850		61.1885		91.3236		53.7496	54.2817	MG/KG	101		155	N	40	*	75 - 125	20	MS
Copper	63	5.8451		17.2300		24.4702		10.7499	10.8563	MG/KG	106		172	N	35	*	75 - 125	20	MS
Iron		19964.6461		19415.8818		19758.4757		108.5635	105.4318	MG/KG	-505		-196		2			20	P
Lead	208	5.9548		8.7913		13.0493		3.2250	3.2569	MG/KG	88		218	N	39	*	75 - 125	20	MS
Lithium		24.0738		128.2308		125.1191		108.5635	105.4318	MG/KG	96		96		2		82 - 114	20	P
Magnesium		4458.2407		4677.7575		4693.3051		217.1270	210.8637	MG/KG	101		111		0			20	P
Manganese		265.4094		331.8862		313.1168		54.2817	52.7159	MG/KG	122		90		6			20	P
Mercury		0.0078	U	0.1840		0.1872		0.1736	0.1783	MG/KG	106		105		2		65 - 135	20	CV
Molybdenum	98	0.8430		11.6465		17.3137		10.7499	10.8563	MG/KG	100		152	N	39	*	75 - 125	20	MS
Nickel	60	11.8400		22.9833		33.8284		10.7499	10.8563	MG/KG	104		203	N	38	*	75 - 125	20	MS
Phosphorus		166.4729		262.5586		260.1995		108.5635	105.4318	MG/KG	89		89		1		75 - 125	20	P
Potassium		1827.7881		3132.6754		3201.0259		1085.6349	1054.3185	MG/KG	120		130	N	2		75 - 125	20	P
Selenium	78	0.0830	B	2.1422		2.7336		2.1500	2.1713	MG/KG	96		122		24	*	75 - 125	20	MS
Silver	107	0.0467	B	10.8639		15.1034		10.7499	10.8563	MG/KG	101		139	N	33	*	75 - 125	20	MS
Sodium		109.3234		1182.6114		1160.0318		1085.6349	1054.3185	MG/KG	99		100		2		75 - 125	20	P
Strontium		19.9253		121.5933		117.9466		108.5635	105.4318	MG/KG	94		93		3		75 - 115	20	P
Thallium	203	0.3089		0.6534		1.0392		0.4300	0.4343	MG/KG	80		168	N	46	*	75 - 125	20	MS
Tin		3.0617	B	397.5041		388.3044		434.2539	421.7274	MG/KG	91		91		2		80 - 110	20	P
Titanium		1168.1491		1441.0877		1396.2401		109.6491	109.6491	MG/KG	249		208		3			20	P
Vanadium	51	41.8354		50.8471		75.2562		10.7499	10.8563	MG/KG	84		308	N	39	*	75 - 125	20	MS
Zinc	66	49.2999		55.0826		80.4238		10.7499	10.8563	MG/KG	54		287		37	*		20	MS
Zirconium		2.7231	B	109.3734		106.0381		108.5635	105.4318	MG/KG	98		98		3		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

RPDout

RBD

DE198

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE198
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6342209BKG
% Solids for Duplicate: 91.2
Batch ID(s): P19508C, P19526A, P19511B, P20608A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6342209DUP
% Solids for Sample: 91.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20589.9772		20299.6210		1		P
Antimony	121		0.1921	B	0.0916	B	71		MS
Arsenic	75		19.6251		16.8731		15		MS
Barium	137		98.4101		89.9338		9		MS
Beryllium	9		0.8388		0.7566		10		MS
Boron			5.0364	B	4.2965	B	16		P
Cadmium	111		0.0505	B	0.0522	B	3		MS
Calcium			2071.5445		2048.4915		1		P
Chromium	52		20.4348		17.6987		14		MS
Cobalt	59		7.0850		6.2199		13		MS
Copper	63		5.8451		5.1320		13		MS
Iron			19964.6461		20267.6567		2		P
Lead	208		5.9548		5.2288		13		MS
Lithium			24.0738		23.3372		3		P
Magnesium			4458.2407		4447.7080		0		P
Manganese			265.4094		293.2539		10		P
Mercury			0.0078	U	0.0082	B	200		CV
Molybdenum	98		0.8430		0.8017		5		MS
Nickel	60		11.8400		10.6489		11		MS
Phosphorus			166.4729		163.7711		2		P
Potassium			1827.7881		1882.5967		3		P
Selenium	78		0.0830	B	0.0623	U	200		MS
Silver	107		0.0467	B	0.0539	B	14		MS
Sodium		106.5	109.3234		106.6535		2		P
Strontium			19.9253		19.6623		1		P
Thallium	203	0.1	0.3089		0.2832		9		MS
Tin			3.0617	B	2.6550	B	14		P
Titanium			1168.1491		1168.3300		0		P
Vanadium	51		41.8354		36.5067		14		MS
Zinc	66		49.2999		44.4616		10		MS
Zirconium			2.7231	B	3.5333	B	26		P

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

DE198 6245

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.: DE198
Matrix: SOIL Level (low/med): LOW

J105

Background Lab Sample ID: 6342209BKG Serial Dilution Lab Sample ID: 6342209L
Batch ID(s): P19508C, P19526A, P20608A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		193414.0100		174456.4500		10		P
Antimony	121	0.9109	B	1.8500	U	100		MS
Arsenic	75	93.0700		129.1500		39	E	MS
Barium	137	466.7000		658.5000		41	E	MS
Beryllium	9	3.9780		6.0050		51		MS
Boron		47.3100	B	51.7500	B	9		P
Cadmium	111	0.2396	B	1.1000	U	100		MS
Calcium		19459.2600		19535.4000		0		P
Chromium	52	96.9100		140.0500		45	E	MS
Cobalt	59	33.6000		74.2500		121	E	MS
Copper	63	27.7200		59.0000		113		MS
Iron		187539.9000		184691.2000		2		P
Lead	208	28.2400		41.9050		48	E	MS
Lithium		226.1400		200.5000		11		P
Magnesium		41878.9300		41311.0500		1		P
Manganese		2493.1500		2548.6000		2		P
Molybdenum	98	3.9980		12.1050		203		MS
Nickel	60	56.1500		86.5500		54	E	MS
Phosphorus		1563.7800		1502.1000		4		P
Potassium		17169.5100		16327.0000		5		P
Selenium	78	0.3936	B	1.8720	B	376		MS
Silver	107	0.2215	B	5.2150		2254		MS
Sodium		1026.9400		1004.8000	B	2		P
Strontium		187.1700		178.5000		5		P
Thallium	203	1.4650		1.9520	B	33		MS
Tin		28.7600	B	24.2500	B	16		P
Titanium		10653.5200		11813.9500		11	E	P
Vanadium	51	198.4000		287.8000		45	E	MS
Zinc	66	233.8000		316.2000		35		MS
Zirconium		25.5800	B	54.5000	B	113		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

DE198 6242

SAMPLE DELIVERY GROUP

DE199

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3050B	6010B	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3050B	6020	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3060A	7199	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3546	1625C	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8015B	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8015M	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8081A	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8082	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8151A	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8270C	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	3550B	8270C SIM	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	METHOD	300.0	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	METHOD	314.0	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	METHOD	7471A	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	METHOD	8015B	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	METHOD	8015M	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343394	N	METHOD	8315A	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5DUP	P343394D271603A	DUP	3060A	7199	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5MSD	P343394M240033A	MSD	3550B	8082	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5MSD	P343394M322154A	MSD	METHOD	8015B	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5MS	P343394R240015A	MS	3550B	8082	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5MS	P343394R271523A	MS	3060A	7199	IV
12-Jul-2011	SL-281-SA6-SS-0.0-0.5MS	P343394R322139A	MS	METHOD	8015B	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3050B	6010B	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3050B	6020	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3060A	7199	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
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3546	1625C	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8015B	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8015M	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8081A	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8082	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8151A	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8270C	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	3550B	8270C SIM	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	METHOD	300.0	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	METHOD	314.0	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	METHOD	7471A	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	METHOD	8015B	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	METHOD	8015M	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343395	N	METHOD	8315A	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5MSD	P343395M320150A	MSD	3550B	8015B	IV
12-Jul-2011	SL-300-SA6-SS-0.0-0.5MS	P343395R320106A	MS	3550B	8015B	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3050B	6010B	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3060A	7199	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3546	1625C	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3550B	8015B	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3550B	8015M	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3550B	8081A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3550B	8082	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3550B	8151A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	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
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	3550B	8270C SIM	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	METHOD	300.0	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	METHOD	314.0	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	METHOD	7471A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	METHOD	8015B	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	METHOD	8015M	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343393	N	METHOD	8315A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5DUP	P343393D220116A	DUP	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5DUP	P343393D220116B	DUP	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5DUP	P343393D220116C	DUP	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5DUP	P343393D220116D	DUP	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5DUP	P343393D271400A	DUP	METHOD	300.0	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5DUP	P343393D271655A	DUP	METHOD	314.0	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M220123A	MSD	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M220123B	MSD	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M220123C	MSD	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M220123D	MSD	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M240250A	MSD	3550B	8151A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M241628A	MSD	3550B	8081A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M260149	MSD	3550B	8270C	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M261526	MSD	3550B	8270C SIM	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MSD	P343393M320248A	MSD	3550B	8015M	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R220120A	MS	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R220120B	MS	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R220120C	MS	3050B	6020	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R220120D	MS	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
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R240222A	MS	3550B	8151A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R241613A	MS	3550B	8081A	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R260124	MS	3550B	8270C	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R261453	MS	3550B	8270C SIM	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R271415A	MS	METHOD	300.0	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R271718A	MS	METHOD	314.0	IV
12-Jul-2011	SL-280-SA6-SS-0.0-0.5MS	P343393R320223A	MS	3550B	8015M	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3050B	6010B	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3050B	6020	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3060A	7199	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8015B	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8015M	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8081A	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8082	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8151A	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8270C	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	3550B	8270C SIM	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	METHOD	300.0	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	METHOD	314.0	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	METHOD	7471A	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	METHOD	8015B	IV
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343404	N	METHOD	8015M	IV
13-Jul-2011	TB-071311	6343412	TB	5030B	8015M	IV
13-Jul-2011	TB-071311	6343412	TB	5030B	8260B	IV
13-Jul-2011	TB-071311	6343412	TB	5030B	8260B SIM	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3050B	6010B	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
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3050B	6020	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3060A	7199	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3550B	8015B	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3550B	8015M	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3550B	8082	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3550B	8270C	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	3550B	8270C SIM	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	5035	8015M	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	5035	8260B	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	5035	8260B SIM	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	METHOD	300.0	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	METHOD	314.0	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	METHOD	7471A	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	METHOD	8015B	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343405	N	METHOD	8015M	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0DUP	P343405D221904	DUP	METHOD	7471A	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0MSD	P343405M221907	MSD	METHOD	7471A	IV
13-Jul-2011	SL-072-SA6-SB-4.0-5.0MS	P343405R221906	MS	METHOD	7471A	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3050B	6010B	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3050B	6020	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3060A	7199	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3550B	8015B	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3550B	8015M	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3550B	8082	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3550B	8270C	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	3550B	8270C 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
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	5035	8015M	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	METHOD	300.0	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	METHOD	314.0	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	METHOD	7471A	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	METHOD	8015B	IV
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343406	N	METHOD	8015M	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3050B	6010B	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3050B	6020	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3060A	7199	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3546	1625C	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8015B	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8015M	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8081A	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8082	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8151A	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8270C	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	3550B	8270C SIM	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	5035	8015M	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	5035	8260B	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	5035	8260B SIM	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	8330	8330A	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	300.0	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	314.0	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	7471A	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	8015B	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	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
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	8315A	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343403	N	METHOD	9012B	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5DUP	P343403D270134B	DUP	METHOD	300.0	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5DUP	P343403D270617B	DUP	METHOD	314.0	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5MS	P343403R270219B	MS	METHOD	300.0	IV
13-Jul-2011	SL-278-SA6-SS-0.0-0.5MS	P343403R270703B	MS	METHOD	314.0	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3050B	6010B	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3050B	6020	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3060A	7199	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3550B	8015B	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3550B	8015M	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3550B	8082	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3550B	8270C	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	3550B	8270C SIM	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	5035	8015M	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	5035	8260B	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	5035	8260B SIM	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	METHOD	300.0	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	METHOD	314.0	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	METHOD	6850	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	METHOD	7471A	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	METHOD	8015B	IV
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343407	N	METHOD	8015M	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3050B	6010B	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3050B	6020	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3060A	7199	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
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3550B	8015M	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3550B	8081A	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3550B	8082	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3550B	8151A	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3550B	8270C	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	3550B	8270C SIM	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	METHOD	300.0	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	METHOD	314.0	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	METHOD	6850	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	METHOD	7471A	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	METHOD	8015B	IV
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343398	N	METHOD	8015M	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3050B	6010B	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3050B	6020	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3060A	7199	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3546	1625C	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8015B	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8015M	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8081A	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8082	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8151A	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8270C	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	3550B	8270C SIM	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	8330	8330A	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	METHOD	300.0	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	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
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	METHOD	7471A	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	METHOD	8015B	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	METHOD	8015M	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	METHOD	8315A	IV
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343397	N	METHOD	9012B	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3050B	6010B	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3050B	6020	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3060A	7199	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3546	1625C	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8015B	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8015M	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8081A	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8082	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8151A	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8270C	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	3550B	8270C SIM	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	8330	8330A	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	300.0	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	314.0	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	7471A	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	8015B	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	8015M	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	8315A	IV
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344255	N	METHOD	9012B	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3050B	6010B	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3050B	6020	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3060A	7199	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3546	1625C	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8015B	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8015M	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8081A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8082	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8151A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8270C	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	3550B	8270C SIM	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	8330	8330A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	300.0	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	314.0	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	7471A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	8015B	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	8015M	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	8315A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343396	N	METHOD	9012B	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5DUP	P343396D271850A	DUP	METHOD	9012B	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5MSD	P343396M240141A	MSD	8330	8330A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5MS	P343396R240058A	MS	8330	8330A	IV
13-Jul-2011	SL-030-SA6-SS-0.0-0.5MS	P343396R271851A	MS	METHOD	9012B	IV
13-Jul-2011	EB-SA6-SS-071311	6343414	EB	5030B	8015M	IV
13-Jul-2011	EB-SA6-SS-071311	6343414	EB	5030B	8260B	IV
13-Jul-2011	EB-SA6-SS-071311	6343414	EB	5030B	8260B SIM	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3005A	6010B	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3020A	6020	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3510C	8015B	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3510C	8015M	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3510C	8082	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3510C	8270C	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3510C	8270C SIM	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	3520C	1625C	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	5030B	8015M	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	5030B	8260B	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	5030B	8260B SIM	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	8330	8330A	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	Gen Prep	300.0	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	Gen Prep	314.0	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	Gen Prep	7199	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	Gen Prep	8015B	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	Gen Prep	8015M	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	METHOD	7470A	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	METHOD	8315A	IV
13-Jul-2011	EB-SA6-SB-071311	6343413	EB	METHOD	9012B	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3050B	6010B	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3050B	6020	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3060A	7199	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8015B	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8015M	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8081A	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8082	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8151A	IV

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8270C	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	3550B	8270C SIM	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	METHOD	300.0	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	METHOD	314.0	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	METHOD	6850	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	METHOD	7471A	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	METHOD	8015B	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343400	N	METHOD	8015M	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5DUP	P343400D222309	DUP	3050B	6010B	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5MSD	P343400M222317	MSD	3050B	6010B	IV
13-Jul-2011	SL-059-SA6-SS-0.0-0.5MS	P343400R222313	MS	3050B	6010B	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3050B	6010B	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3050B	6020	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3060A	7199	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3550B	8015B	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3550B	8015M	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3550B	8082	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3550B	8270C	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	3550B	8270C SIM	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	5035	8015M	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	METHOD	300.0	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	METHOD	314.0	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	METHOD	7471A	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	METHOD	8015B	IV
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343409	N	METHOD	8015M	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3050B	6010B	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
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3050B	6020	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3060A	7199	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3546	1625C	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8015B	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8015M	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8081A	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8082	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8151A	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8270C	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	3550B	8270C SIM	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	8330	8330A	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	300.0	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	314.0	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	7471A	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	8015B	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	8015M	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	8315A	IV
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343399	N	METHOD	9012B	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3050B	6010B	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3050B	6020	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3060A	7199	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3550B	8015B	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3550B	8015M	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3550B	8082	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3550B	8270C	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	3550B	8270C 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
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	5035	8015M	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	5035	8260B	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	5035	8260B SIM	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	METHOD	300.0	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	METHOD	314.0	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	METHOD	7471A	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	METHOD	8015B	IV
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343408	N	METHOD	8015M	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3050B	6010B	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3050B	6020	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3060A	7199	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3546	1625C	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8015B	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8015M	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8081A	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8082	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8151A	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8270C	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	3550B	8270C SIM	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	8330	8330A	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	300.0	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	314.0	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	7471A	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	8015B	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	8015M	IV
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	8315A	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
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343402	N	METHOD	9012B	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3050B	6010B	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3050B	6020	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3060A	7199	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3546	1625C	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8015B	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8015M	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8081A	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8082	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8151A	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8270C	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	3550B	8270C SIM	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	8330	8330A	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	300.0	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	314.0	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	7471A	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	8015B	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	8015M	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	8315A	IV
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343401	N	METHOD	9012B	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3050B	6010B	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3050B	6020	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3060A	7199	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3550B	8015B	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3550B	8015M	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	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
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3550B	8270C	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	3550B	8270C SIM	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	5035	8015M	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	5035	8260B	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	5035	8260B SIM	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	METHOD	300.0	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	METHOD	314.0	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	METHOD	7471A	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	METHOD	8015B	IV
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343410	N	METHOD	8015M	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3050B	6010B	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3050B	6020	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3060A	7199	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3550B	8015B	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3550B	8015M	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3550B	8082	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3550B	8270C	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	3550B	8270C SIM	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	5035	8015M	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	METHOD	300.0	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	METHOD	314.0	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	METHOD	7471A	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	METHOD	8015B	IV
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343411	N	METHOD	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.5	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-071311 *Collected:* 7/13/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0074	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0740	J	0.0705	MDL	0.200	PQL	mg/L	J	Z
STRONTIUM	0.00047	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.96	J	0.363	MDL	5.04	PQL	mg/Kg	U	F
PHOSPHORUS	465		0.353	MDL	10.1	PQL	mg/Kg	J	Q, E
TIN	2.40	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.97	J	0.463	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4120		2.52	MDL	20.2	PQL	mg/Kg	J	E

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.69	J	0.358	MDL	4.97	PQL	mg/Kg	U	F
PHOSPHORUS	370		0.348	MDL	9.94	PQL	mg/Kg	J	Q, E
TIN	1.93	J	0.318	MDL	9.94	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.457	MDL	4.97	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-035-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2460		2.49	MDL	19.9	PQL	mg/Kg	J	E
SODIUM	63.5	J	5.92	MDL	99.4	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 9:45:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.77	J	0.369	MDL	5.12	PQL	mg/Kg	U	F
PHOSPHORUS	401		0.359	MDL	10.2	PQL	mg/Kg	J	Q, E
TIN	2.44	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.41	J	0.471	MDL	5.12	PQL	mg/Kg	U	B

Sample ID: SL-040-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 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
CALCIUM	2380		2.56	MDL	20.5	PQL	mg/Kg	J	E
SODIUM	58.0	J	6.10	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:23:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.823	J	0.360	MDL	5.00	PQL	mg/Kg	U	F
PHOSPHORUS	348		0.350	MDL	10.0	PQL	mg/Kg	J	Q, E
TIN	1.80	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.44	J	0.460	MDL	5.00	PQL	mg/Kg	U	B

Sample ID: SL-046-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:23:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2100		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	63.9	J	5.95	MDL	100	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.00	J	0.364	MDL	5.06	PQL	mg/Kg	U	F

* 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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	345		0.354	MDL	10.1	PQL	mg/Kg	J	Q, E
TIN	2.30	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.64	J	0.465	MDL	5.06	PQL	mg/Kg	U	B

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2350		2.53	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	53.9	J	6.02	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:23:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.632	J	0.348	MDL	4.83	PQL	mg/Kg	U	F
PHOSPHORUS	298		0.338	MDL	9.66	PQL	mg/Kg	J	Q, E
TIN	2.06	J	0.309	MDL	9.66	PQL	mg/Kg	U	B
Zirconium	1.60	J	0.445	MDL	4.83	PQL	mg/Kg	U	B

Sample ID: SL-059-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:23:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2890		2.42	MDL	19.3	PQL	mg/Kg	J	E

Sample ID: SL-066-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 2:43:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.02	J	0.361	MDL	5.01	PQL	mg/Kg	U	F
PHOSPHORUS	297		0.351	MDL	10.0	PQL	mg/Kg	J	Q, E
TIN	2.05	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.84	J	0.461	MDL	5.01	PQL	mg/Kg	U	B

Sample ID: SL-066-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 2:43:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2040		2.51	MDL	20.0	PQL	mg/Kg	J	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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-066-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 2:43:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	59.0	J	5.96	MDL	100	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 2:13:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.31	J	0.364	MDL	5.05	PQL	mg/Kg	U	F
PHOSPHORUS	345		0.354	MDL	10.1	PQL	mg/Kg	J	Q, E
TIN	2.24	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.06	J	0.465	MDL	5.05	PQL	mg/Kg	U	B

Sample ID: SL-067-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 2:13:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2500		2.53	MDL	20.2	PQL	mg/Kg	J	E
SODIUM	63.0	J	6.01	MDL	101	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0 ***Collected:*** 7/13/2011 8:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.05	J	0.390	MDL	5.41	PQL	mg/Kg	U	F
PHOSPHORUS	269		0.379	MDL	10.8	PQL	mg/Kg	J	Q, E
TIN	2.47	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.35	J	0.498	MDL	5.41	PQL	mg/Kg	U	B

Sample ID: SL-072-SA6-SB-4.0-5.0 ***Collected:*** 7/13/2011 8:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1960		2.71	MDL	21.6	PQL	mg/Kg	J	E

Sample ID: SL-072-SA6-SB-9.0-10.0 ***Collected:*** 7/13/2011 8:35:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.772	J	0.395	MDL	5.48	PQL	mg/Kg	U	F
PHOSPHORUS	177		0.384	MDL	11.0	PQL	mg/Kg	J	Q, E
TIN	2.69	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.94	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 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	2140		2.74	MDL	21.9	PQL	mg/Kg	J	E

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	383		0.374	MDL	10.7	PQL	mg/Kg	J	Q, E
TIN	2.20	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.01	J	0.491	MDL	5.34	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	12900		2.67	MDL	21.3	PQL	mg/Kg	J	E

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	365		0.383	MDL	10.9	PQL	mg/Kg	J	Q, E
TIN	2.52	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.83	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	16800		2.74	MDL	21.9	PQL	mg/Kg	J	E

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 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	0.422	J	0.372	MDL	5.17	PQL	mg/Kg	U	F
PHOSPHORUS	198		0.362	MDL	10.3	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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-116-SA6-SB-2.5-3.5 ***Collected:*** 7/13/2011 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
TIN	2.50	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA6-SB-2.5-3.5 ***Collected:*** 7/13/2011 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
CALCIUM	2680		2.58	MDL	20.7	PQL	mg/Kg	J	E

Sample ID: SL-118-SA6-SB-10.5-11.5 ***Collected:*** 7/13/2011 1:45:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	569		0.367	MDL	10.5	PQL	mg/Kg	J	Q, E
TIN	1.86	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.21	J	0.482	MDL	5.24	PQL	mg/Kg	U	B

Sample ID: SL-118-SA6-SB-10.5-11.5 ***Collected:*** 7/13/2011 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	4280		2.62	MDL	21.0	PQL	mg/Kg	J	E

Sample ID: SL-118-SA6-SB-4.0-5.0 ***Collected:*** 7/13/2011 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	4.00	J	0.391	MDL	5.42	PQL	mg/Kg	J	Z
PHOSPHORUS	467		0.380	MDL	10.8	PQL	mg/Kg	J	Q, E
TIN	1.79	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.68	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA6-SB-4.0-5.0 ***Collected:*** 7/13/2011 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
CALCIUM	24800		2.71	MDL	21.7	PQL	mg/Kg	J	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.63	J	0.355	MDL	4.93	PQL	mg/Kg	U	F
PHOSPHORUS	782		0.345	MDL	9.86	PQL	mg/Kg	J	Q, E
TIN	2.19	J	0.316	MDL	9.86	PQL	mg/Kg	U	B

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
CALCIUM	4120		2.47	MDL	19.7	PQL	mg/Kg	J	E
Zirconium	1.48	J	0.454	MDL	4.93	PQL	mg/Kg	U	B

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.43	J	0.360	MDL	5.00	PQL	mg/Kg	U	F
PHOSPHORUS	607		0.350	MDL	10.0	PQL	mg/Kg	J	Q, E
TIN	1.98	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.56	J	0.460	MDL	5.00	PQL	mg/Kg	U	B

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4640		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	83.5	J	5.96	MDL	100	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.372	MDL	5.16	PQL	mg/Kg	U	F
PHOSPHORUS	445		0.361	MDL	10.3	PQL	mg/Kg	J	Q, E
TIN	2.18	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.83	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5650		2.58	MDL	20.6	PQL	mg/Kg	J	E
SODIUM	92.4	J	6.14	MDL	103	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	1780		0.355	MDL	10.1	PQL	mg/Kg	J	Q, E
TIN	2.17	J	0.325	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.32	J	0.467	MDL	5.07	PQL	mg/Kg	U	B

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	13300		2.54	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.78	J	0.356	MDL	4.95	PQL	mg/Kg	U	F
PHOSPHORUS	927		0.346	MDL	9.89	PQL	mg/Kg	J	Q, E
TIN	1.96	J	0.317	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	1.58	J	0.455	MDL	4.95	PQL	mg/Kg	U	B

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	12800		2.47	MDL	19.8	PQL	mg/Kg	J	E

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
ANTIMONY	0.164	J	0.0761	MDL	0.206	PQL	mg/Kg	J	Z, E, 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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
ARSENIC	6.01		0.0822	MDL	0.411	PQL	mg/Kg	J	Q, E
COBALT	6.26		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	22.0		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0963	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	39.6		0.0226	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.163	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0751	U	0.0751	MDL	0.203	PQL	mg/Kg	UJ	E, Q
ARSENIC	3.03		0.0811	MDL	0.406	PQL	mg/Kg	J	Q, E
COBALT	3.71		0.0203	MDL	0.101	PQL	mg/Kg	J	E
COPPER	12.6		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0296	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	23.6		0.0223	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0883	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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	0.0744	U	0.0744	MDL	0.201	PQL	mg/Kg	UJ	E, Q
ARSENIC	3.33		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, E
COBALT	3.57		0.0201	MDL	0.101	PQL	mg/Kg	J	E
COPPER	8.12		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
VANADIUM	27.3		0.0221	MDL	0.101	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-040-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 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	0.0966	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:23:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0747	U	0.0747	MDL	0.202	PQL	mg/Kg	UJ	E, Q
ARSENIC	3.33		0.0808	MDL	0.404	PQL	mg/Kg	J	Q, E
COBALT	3.80		0.0202	MDL	0.101	PQL	mg/Kg	J	E
COPPER	9.88		0.0808	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	0.0309	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	23.9		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-046-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:23:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.0586	MDL	0.404	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0748	U	0.0748	MDL	0.202	PQL	mg/Kg	UJ	E, Q
ARSENIC	5.98		0.0809	MDL	0.404	PQL	mg/Kg	J	Q, E
COBALT	4.40		0.0202	MDL	0.101	PQL	mg/Kg	J	E
COPPER	6.58		0.0809	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	0.0633	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	29.2		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0586	MDL	0.404	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
ANTIMONY	0.0715	U	0.0715	MDL	0.193	PQL	mg/Kg	UJ	E, Q
ARSENIC	3.16		0.0773	MDL	0.387	PQL	mg/Kg	J	Q, E
COBALT	3.20		0.0193	MDL	0.0966	PQL	mg/Kg	J	E
COPPER	4.29		0.0773	MDL	0.387	PQL	mg/Kg	J	Q
SILVER	0.0194	J	0.0137	MDL	0.0966	PQL	mg/Kg	J	Z
VANADIUM	19.9		0.0213	MDL	0.0966	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:23:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0842	J	0.0561	MDL	0.387	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0749	U	0.0749	MDL	0.202	PQL	mg/Kg	UJ	E, Q
ARSENIC	3.43		0.0810	MDL	0.405	PQL	mg/Kg	J	Q, E
CADMIUM	0.0810	J	0.0445	MDL	0.101	PQL	mg/Kg	J	Z
COBALT	3.71		0.0202	MDL	0.101	PQL	mg/Kg	J	E
COPPER	5.12		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
SILVER	0.0257	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	27.2		0.0223	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0776	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0733	U	0.0733	MDL	0.198	PQL	mg/Kg	UJ	E, Q
ARSENIC	4.99		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, E
COBALT	4.53		0.0198	MDL	0.0990	PQL	mg/Kg	J	E
COPPER	6.37		0.0792	MDL	0.396	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0291	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z
VANADIUM	31.3		0.0218	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 8:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0809	U	0.0809	MDL	0.219	PQL	mg/Kg	UJ	E, Q
ARSENIC	3.78		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, E
CADMIUM	0.0616	J	0.0481	MDL	0.109	PQL	mg/Kg	J	Z
COBALT	4.77		0.0219	MDL	0.109	PQL	mg/Kg	J	E
COPPER	4.96		0.0874	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	29.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0852	U	0.0852	MDL	0.230	PQL	mg/Kg	UJ	E, Q
ARSENIC	4.40		0.0921	MDL	0.460	PQL	mg/Kg	J	Q, E
CADMIUM	0.0615	J	0.0506	MDL	0.115	PQL	mg/Kg	J	Z
COBALT	5.52		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	4.72		0.0921	MDL	0.460	PQL	mg/Kg	J	Q
SILVER	0.0611	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	29.7		0.0253	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0748	J	0.0667	MDL	0.460	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0996	J	0.0790	MDL	0.213	PQL	mg/Kg	J	Z, E, Q
ARSENIC	5.80		0.0854	MDL	0.427	PQL	mg/Kg	J	Q, E
COBALT	8.42		0.0213	MDL	0.107	PQL	mg/Kg	J	E
COPPER	13.8		0.0854	MDL	0.427	PQL	mg/Kg	J	Q
SILVER	0.0360	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	41.2		0.0235	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0912	J	0.0619	MDL	0.427	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0974	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, E, Q
ARSENIC	27.0		0.0875	MDL	0.438	PQL	mg/Kg	J	Q, E
COBALT	8.66		0.0219	MDL	0.109	PQL	mg/Kg	J	E
COPPER	16.1		0.0875	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0416	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	36.6		0.0241	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0891	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 9:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	E, Q
ARSENIC	6.23		0.0835	MDL	0.418	PQL	mg/Kg	J	Q, E
CADMIUM	0.0625	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z
COBALT	4.95		0.0209	MDL	0.104	PQL	mg/Kg	J	E
COPPER	6.02		0.0835	MDL	0.418	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 9:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0378	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	39.3		0.0230	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 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
ANTIMONY	0.0753	U	0.0753	MDL	0.204	PQL	mg/Kg	UJ	E, Q
ARSENIC	2.14		0.0814	MDL	0.407	PQL	mg/Kg	J	Q, E
COBALT	6.49		0.0204	MDL	0.102	PQL	mg/Kg	J	E
COPPER	13.7		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0180	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	30.8		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0827	U	0.0827	MDL	0.223	PQL	mg/Kg	UJ	E, Q
ARSENIC	4.99		0.0894	MDL	0.447	PQL	mg/Kg	J	Q, E
COBALT	6.55		0.0223	MDL	0.112	PQL	mg/Kg	J	E
COPPER	10.5		0.0894	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0297	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	45.4		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
ANTIMONY	0.259		0.0737	MDL	0.199	PQL	mg/Kg	J	E, Q
ARSENIC	3.96		0.0797	MDL	0.398	PQL	mg/Kg	J	Q, E
COBALT	6.41		0.0199	MDL	0.0996	PQL	mg/Kg	J	E
COPPER	18.5		0.0797	MDL	0.398	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
VANADIUM	37.7		0.0219	MDL	0.0996	PQL	mg/Kg	J	Q

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.219	J	0.0578	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0967	J	0.0763	MDL	0.206	PQL	mg/Kg	J	Z, E, Q
ARSENIC	4.33		0.0825	MDL	0.412	PQL	mg/Kg	J	Q, E
COBALT	4.90		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	6.97		0.0825	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0684	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	27.2		0.0227	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0854	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0764	MDL	0.206	PQL	mg/Kg	J	Z, E, Q
ARSENIC	5.66		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, E
COBALT	6.41		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	13.1		0.0826	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0442	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	35.7		0.0227	MDL	0.103	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.157	J	0.0758	MDL	0.205	PQL	mg/Kg	J	Z, E, Q
ARSENIC	14.2		0.0820	MDL	0.410	PQL	mg/Kg	J	Q, E
COBALT	16.1		0.0205	MDL	0.102	PQL	mg/Kg	J	E
COPPER	24.3		0.0820	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0481	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z
VANADIUM	43.8		0.0225	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0594	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0761	U	0.0761	MDL	0.206	PQL	mg/Kg	UJ	E, Q
ARSENIC	4.89		0.0823	MDL	0.412	PQL	mg/Kg	J	Q, E
COBALT	5.02		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	8.86		0.0823	MDL	0.412	PQL	mg/Kg	J	Q
SILVER	0.0620	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	25.1		0.0226	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0670	J	0.0597	MDL	0.412	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.95	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0183	J	0.0070	MDL	0.0990	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0184	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0232	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0454	J	0.0068	MDL	0.0973	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0258	J	0.0068	MDL	0.0967	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0593	J	0.0073	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0186	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0682	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0599	J	0.0069	MDL	0.0982	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	1.0	J	0.82	MDL	2.5	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.1	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:45:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.2	J	2.1	MDL	6.2	PQL	mg/Kg	J	Z

Sample ID: SL-046-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.44	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.68	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.95	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 8:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.2	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.67	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 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 (C15-C20)	0.58	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.1	J	2.1	MDL	6.2	PQL	mg/Kg	J	Z

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.83	U	0.83	MDL	2.5	PQL	mg/Kg	R	Q

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.2	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.6	J	2.1	MDL	6.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-030-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 11:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN ALDEHYDE	2.6	U	2.6	MDL	2.6	PQL	ug/Kg	UJ	C
gamma-BHC (Lindane)	0.051	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, *XIII

Sample ID: SL-035-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.099	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, S
gamma-BHC (Lindane)	0.46		0.034	MDL	0.17	PQL	ug/Kg	J	S

Sample ID: SL-046-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:23:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.076	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.045	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 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
DELTA-BHC	0.071	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 2:43:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDT	0.32	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.054	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, S, * XIII
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.090	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.073	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.31	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S, * XIII
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.22		0.036	MDL	0.17	PQL	ug/Kg	J	* XIII
gamma-BHC (Lindane)	0.054	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, * XIII

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.073	J	0.068	MDL	0.17	PQL	ug/Kg	J	Z, S, * XIII
Chlordane	8.4		0.82	MDL	3.5	PQL	ug/Kg	J	S

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *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	39		3.3	MDL	17	PQL	ug/Kg	J	* XIII

* 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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-046-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	C
AROCLOR 1248	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	C
AROCLOR 1254	15		1.7	MDL	8.6	PQL	ug/Kg	J	C
AROCLOR 1260	2.0	U	2.0	MDL	8.6	PQL	ug/Kg	UJ	C
Aroclor 5460	5.0	U	5.0	MDL	17	PQL	ug/Kg	UJ	C

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	6.0		0.33	MDL	1.7	PQL	ug/Kg	J	*XIII
Aroclor 5460	2.3	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *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	11		0.33	MDL	1.7	PQL	ug/Kg	J	* XIII
Aroclor 5460	23		1.0	MDL	3.3	PQL	ug/Kg	J	* XIII

Sample ID: SL-072-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	C
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	C
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	C
AROCLOR 1260	0.43	U	0.43	MDL	1.9	PQL	ug/Kg	UJ	C
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	C

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	C
AROCLOR 1248	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	C
AROCLOR 1254	0.38	U	0.38	MDL	2.0	PQL	ug/Kg	UJ	C
AROCLOR 1260	0.45	U	0.45	MDL	2.0	PQL	ug/Kg	UJ	C
Aroclor 5460	1.2	U	1.2	MDL	3.8	PQL	ug/Kg	UJ	C

* 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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	1.8	U	1.8	MDL	9.1	PQL	ug/Kg	UJ	C
AROCLOR 1248	1.8	U	1.8	MDL	9.1	PQL	ug/Kg	UJ	C
AROCLOR 1254	68		1.8	MDL	9.1	PQL	ug/Kg	J	C
AROCLOR 1260	2.1	U	2.1	MDL	9.1	PQL	ug/Kg	UJ	C
Aroclor 5460	71		5.3	MDL	18	PQL	ug/Kg	J	C

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	3.6	U	3.6	MDL	19	PQL	ug/Kg	UJ	C
AROCLOR 1248	3.6	U	3.6	MDL	19	PQL	ug/Kg	UJ	C
AROCLOR 1254	250		3.6	MDL	19	PQL	ug/Kg	J	C
AROCLOR 1260	4.3	U	4.3	MDL	19	PQL	ug/Kg	UJ	C
Aroclor 5460	190		11	MDL	36	PQL	ug/Kg	J	C

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 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 1242	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	C
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	C
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	C
AROCLOR 1260	0.42	U	0.42	MDL	1.8	PQL	ug/Kg	UJ	C
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	C

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	C
AROCLOR 1248	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	C
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	C
AROCLOR 1260	0.41	U	0.41	MDL	1.8	PQL	ug/Kg	UJ	C
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	C

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	C
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	C
AROCLOR 1254	4.2		0.37	MDL	1.9	PQL	ug/Kg	J	C
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	C
Aroclor 5460	6.4		1.1	MDL	3.7	PQL	ug/Kg	J	C

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
AROCLOR 1221	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
AROCLOR 1232	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
AROCLOR 1242	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
AROCLOR 1248	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
AROCLOR 1254	7.3		0.34	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	0.40	U	0.40	MDL	1.7	PQL	ug/Kg	R	S
Aroclor 1262	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
Aroclor 1268	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	R	S
Aroclor 5432	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	R	S
Aroclor 5442	1.0	U	1.0	MDL	3.4	PQL	ug/Kg	R	S
Aroclor 5460	5.1		1.0	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *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 1242	1.7	U	1.7	MDL	8.8	PQL	ug/Kg	UJ	C
AROCLOR 1248	1.7	U	1.7	MDL	8.8	PQL	ug/Kg	UJ	C
AROCLOR 1254	23		1.7	MDL	8.8	PQL	ug/Kg	J	C
AROCLOR 1260	2.0	U	2.0	MDL	8.8	PQL	ug/Kg	UJ	C
Aroclor 5460	32		5.2	MDL	17	PQL	ug/Kg	J	C

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.22		0.077	MDL	0.17	PQL	ug/Kg	J	L, *IX
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPP	140	J	77	MDL	260	PQL	ug/Kg	UJ	B, * IX

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	UJ	L
2,4-D	8.0		1.2	MDL	3.6	PQL	ug/Kg	J	* IX
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.078	U	0.078	MDL	0.18	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-046-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPA	1000		77	MDL	250	PQL	ug/Kg	J	* IX

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.075	U	0.075	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L
MCPP	380		75	MDL	250	PQL	ug/Kg	UJ	B, *IX

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.075	U	0.075	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	24	U	24	MDL	24	PQL	ug/Kg	R	L
MCPA	910		76	MDL	250	PQL	ug/Kg	J	* IX

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.075	U	0.075	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	110	J	78	MDL	260	PQL	ug/Kg	J	Z, * IX
MCPP	110	J	77	MDL	260	PQL	ug/Kg	UJ	B, * IX

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.40		0.085	MDL	0.18	PQL	ug/Kg	U	B
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.18	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.16	J	0.085	MDL	0.18	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.078	U	0.078	MDL	0.18	PQL	ug/Kg	UJ	L
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	Q, Q, L
MCPA	320		79	MDL	260	PQL	ug/Kg	J	Q, Q, * IX

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.17	PQL	ug/Kg	UJ	L
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	110	J	78	MDL	260	PQL	ug/Kg	J	Z, * IX

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.22		0.084	MDL	0.17	PQL	ug/Kg	U	B
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.17	PQL	ug/Kg	UJ	L
DICAMBA	0.66	J	0.41	MDL	1.2	PQL	ug/Kg	U	B
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
Butylbenzylphthalate	98	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *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	340	U	340	MDL	1000	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-035-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:05:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZO(A)PYRENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	46	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
CHRYSENE	79	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	94	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 9:45:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	68	J	17	MDL	350	PQL	ug/Kg	J	Z
Di-n-octylphthalate	140	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-046-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 10:23:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 1:53:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	510	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *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	18	J	17	MDL	340	PQL	ug/Kg	J	Z
Di-n-octylphthalate	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:23:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
ACENAPHTHENE	29	J	17	MDL	170	PQL	ug/Kg	J	Z
ANTHRACENE	52	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZO(A)PYRENE	150	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	79	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	90	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
CARBAZOLE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	26	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	79	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	510	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-072-SA6-SB-4.0-5.0** ***Collected:*** **7/13/2011 8:25:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

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

Sample ID: **SL-072-SA6-SB-9.0-10.0** ***Collected:*** **7/13/2011 8:35:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: **SL-083-SA6-SB-4.0-5.0** ***Collected:*** **7/13/2011 3:05:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
ANTHRACENE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	150	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	160	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	100	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	89	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
CHRYSENE	170	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	34	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	77	J	18	MDL	180	PQL	ug/Kg	J	Z
NAPHTHALENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	99	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: **SL-083-SA6-SB-9.0-10.0** ***Collected:*** **7/13/2011 3:15:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TRICHLOROPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	I
2,4,6-TRICHLOROPHENOL	36	U	36	MDL	180	PQL	ug/Kg	UJ	I
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L, I
2,4-DINITROTOLUENE	36	U	36	MDL	180	PQL	ug/Kg	UJ	I

* 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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,6-DINITROTOLUENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
2-CHLORONAPHTHALENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
2-NITROANILINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	360	PQL	ug/Kg	UJ	I
3-NITROANILINE	36	U	36	MDL	180	PQL	ug/Kg	UJ	I
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L, I
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
4-CHLOROPHENYL-PHENYLETHER	36	U	36	MDL	180	PQL	ug/Kg	UJ	I
4-NITROANILINE	73	U	73	MDL	180	PQL	ug/Kg	UJ	I
4-NITROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	I
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	UJ	I
BENZO(A)ANTHRACENE	31	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
BENZO(A)PYRENE	44	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
BENZO(B)FLUORANTHENE	48	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
BENZO(G,H,I)PERYLENE	36	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
BENZO(K)FLUORANTHENE	26	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
Butylbenzylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
CHRYSENE	43	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
DIBENZOFURAN	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
Diethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
Dimethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
Di-n-butylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
FLUORANTHENE	47	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
HEXACHLOROCYCLOPENTADIENE	180	U	180	MDL	550	PQL	ug/Kg	UJ	I
INDENO(1,2,3-CD)PYRENE	33	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	I
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	I
PYRENE	60	J	18	MDL	180	PQL	ug/Kg	J	Z, S, I

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 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
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 1:45:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* RES-ACID *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	3400	U	3400	MDL	10000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	1700	U	1700	MDL	5100	PQL	ug/Kg	UJ	L
BENZIDINE	12000	U	12000	MDL	34000	PQL	ug/Kg	UJ	C
BENZOIC ACID	1700	U	1700	MDL	5100	PQL	ug/Kg	UJ	L

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1000	PQL	ug/Kg	R	Q, L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	Q, L
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	UJ	Q, C
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
HEXACHLOROETHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
PHENANTHRENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	UJ	C
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: EB-SA6-SB-071311 *Collected:* 7/13/2011 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.21	J	0.051	MDL	1.0	PQL	ug/L	U	B
Dimethylphthalate	0.051	U	0.051	MDL	1.0	PQL	ug/L	UJ	E
Di-n-butylphthalate	0.28	J	0.051	MDL	1.0	PQL	ug/L	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: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.5	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	27		3.4	MDL	8.6	PQL	ug/Kg	J	C
BENZO(G,H,I)PERYLENE	23		3.4	MDL	8.6	PQL	ug/Kg	J	C
BENZO(K)FLUORANTHENE	18		3.4	MDL	8.6	PQL	ug/Kg	J	C
BIS(2-ETHYLHEXYL)PHTHALATE	63	J	31	MDL	93	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	5.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, C
Di-n-butylphthalate	47	J	31	MDL	93	PQL	ug/Kg	U	B
Di-n-octylphthalate	32	J	31	MDL	93	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	18		3.4	MDL	8.6	PQL	ug/Kg	J	C

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.6	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	3.4	U	3.4	MDL	8.5	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	48	J	30	MDL	91	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	7.8	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z, C
Di-n-octylphthalate	35	J	30	MDL	91	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	9.4		3.4	MDL	8.5	PQL	ug/Kg	J	C
PHENANTHRENE	5.8	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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(A)PYRENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	C
BENZO(B)FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.0		0.69	MDL	1.7	PQL	ug/Kg	J	C
BENZO(K)FLUORANTHENE	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	C
CHRYSENE	0.80	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, C
Di-n-butylphthalate	8.5	J	6.2	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-046-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.54	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.7		0.67	MDL	1.7	PQL	ug/Kg	J	C
BENZO(G,H,I)PERYLENE	0.97	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	3.2		0.67	MDL	1.7	PQL	ug/Kg	J	C
DIBENZO(A,H)ANTHRACENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	C
Di-n-butylphthalate	9.9	J	6.1	MDL	18	PQL	ug/Kg	U	B
Di-n-octylphthalate	6.9	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, C
NAPHTHALENE	0.72	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-047-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 1:53:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, C
BENZO(G,H,I)PERYLENE	0.90	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, C
Butylbenzylphthalate	6.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	C
Di-n-butylphthalate	8.9	J	6.1	MDL	18	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.89	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, C
PHENANTHRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
ACENAPHTHYLENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24		6.0	MDL	18	PQL	ug/Kg	U	B
Butylbenzylphthalate	7.4	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	10	J	6.0	MDL	18	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.5	J	6.0	MDL	18	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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-066-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:43:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.7	J	6.1	MDL	18	PQL	ug/Kg	U	B
Di-n-butylphthalate	8.4	J	6.1	MDL	18	PQL	ug/Kg	U	B
Di-n-octylphthalate	6.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-067-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 2:13:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	4.8	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, C
BENZO(G,H,I)PERYLENE	4.2	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	89	J	30	MDL	91	PQL	ug/Kg	U	B
Butylbenzylphthalate	62	J	30	MDL	91	PQL	ug/Kg	J	Z
CHRYSENE	3.3	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	34	J	30	MDL	91	PQL	ug/Kg	J	Z
FLUORANTHENE	6.3	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z, C
PHENANTHRENE	3.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	4.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C
BENZO(G,H,I)PERYLENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C
BENZO(K)FLUORANTHENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C
DIBENZO(A,H)ANTHRACENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	6.7	J	6.7	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	C
BENZO(G,H,I)PERYLENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	C

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-072-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	C
DIBENZO(A,H)ANTHRACENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	7.1	J	6.9	MDL	21	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.77	U	0.77	MDL	1.9	PQL	ug/Kg	UJ	C

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	80	J	32	MDL	96	PQL	ug/Kg	U	B
Butylbenzylphthalate	51	J	32	MDL	96	PQL	ug/Kg	J	Z
Di-n-butylphthalate	36	J	32	MDL	96	PQL	ug/Kg	U	B
Di-n-octylphthalate	51	J	32	MDL	96	PQL	ug/Kg	J	Z

Sample ID: SL-083-SA6-SB-9.0-10.0 *Collected:* 7/13/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	48	J	33	MDL	98	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	3.6	U	3.6	MDL	9.1	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	37	J	33	MDL	98	PQL	ug/Kg	J	Z
PHENANTHRENE	5.9	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 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
BENZO(A)PYRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	C
BENZO(G,H,I)PERYLENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	C
BENZO(K)FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	C
DIBENZO(A,H)ANTHRACENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	6.6	J	6.5	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	C

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	C

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-118-SA6-SB-10.5-11.5 *Collected:* 7/13/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	C
BENZO(K)FLUORANTHENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	C
DIBENZO(A,H)ANTHRACENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	8.3	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	C

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z, C
BENZO(G,H,I)PERYLENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	0.86	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z, C
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.7	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	1.8	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C
Di-n-butylphthalate	10	J	6.7	MDL	20	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.74	U	0.74	MDL	1.9	PQL	ug/Kg	UJ	C
PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *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)PYRENE	17	U	17	MDL	43	PQL	ug/Kg	UJ	C
BENZO(B)FLUORANTHENE	36	J	17	MDL	43	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	33	J	17	MDL	43	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	17	U	17	MDL	43	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	180	J	150	MDL	460	PQL	ug/Kg	U	B
CHRYSENE	23	J	8.5	MDL	43	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	17	U	17	MDL	43	PQL	ug/Kg	UJ	C
Di-n-octylphthalate	170	J	150	MDL	460	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	17	U	17	MDL	43	PQL	ug/Kg	UJ	C

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-279-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 7:38:00 *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	5.5		0.69	MDL	1.7	PQL	ug/Kg	J	C
BENZO(G,H,I)PERYLENE	2.3		0.69	MDL	1.7	PQL	ug/Kg	J	C
BENZO(K)FLUORANTHENE	4.0		0.69	MDL	1.7	PQL	ug/Kg	J	C
BIS(2-ETHYLHEXYL)PHTHALATE	19		6.2	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	6.3	J	6.2	MDL	19	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.86	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z, C
Di-n-butylphthalate	9.1	J	6.2	MDL	19	PQL	ug/Kg	U	B
Di-n-octylphthalate	8.0	J	6.2	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	2.4		0.69	MDL	1.7	PQL	ug/Kg	J	C
PHENANTHRENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-280-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:43:00 *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	3.5	U	3.5	MDL	8.7	PQL	ug/Kg	UJ	C
BENZO(G,H,I)PERYLENE	5.4	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	3.5	U	3.5	MDL	8.7	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	31	MDL	94	PQL	ug/Kg	U	B
CHRYSENE	4.5	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.5	U	3.5	MDL	8.7	PQL	ug/Kg	UJ	C
Di-n-butylphthalate	36	J	31	MDL	94	PQL	ug/Kg	U	B
FLUORANTHENE	4.2	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.5	U	3.5	MDL	8.7	PQL	ug/Kg	UJ	C

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.3	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	46		3.4	MDL	8.5	PQL	ug/Kg	J	C
BENZO(G,H,I)PERYLENE	35		3.4	MDL	8.5	PQL	ug/Kg	J	C
BENZO(K)FLUORANTHENE	24		3.4	MDL	8.5	PQL	ug/Kg	J	C
BIS(2-ETHYLHEXYL)PHTHALATE	63	J	31	MDL	92	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	7.9	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z, C
Di-n-butylphthalate	36	J	31	MDL	92	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	28		3.4	MDL	8.5	PQL	ug/Kg	J	C

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *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(A)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	C
BENZO(B)FLUORANTHENE	5.2	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, C
BENZO(K)FLUORANTHENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	36	J	31	MDL	93	PQL	ug/Kg	U	B
CHRYSENE	3.3	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	C
Di-n-butylphthalate	35	J	31	MDL	93	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	C
NAPHTHALENE	4.7	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-030-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	700	J	620	MDL	1500	PQL	ug/Kg	J	Z

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	870	J	620	MDL	1500	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: AQ**

Sample ID: EB-SA6-SB-071311 *Collected:* 7/13/2011 12:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H
Isopropanol	200	U	200	MDL	1000	PQL	ug/L	UJ	H
METHANOL	200	U	200	MDL	1000	PQL	ug/L	UJ	H

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-035-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 10:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S

Sample ID: SL-281-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 2:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S

Sample ID: SL-300-SA6-SS-0.0-0.5 *Collected:* 7/12/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	Q, S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	Q, S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	Q, S

Method Category: VOA

Method: 8260B **Matrix: AQ**

Sample ID: EB-SA6-SB-071311 *Collected:* 7/13/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C
DICHLORODIFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C
METHYLENE CHLORIDE	3	J	2	MDL	5	PQL	ug/L	J	Z
TRICHLOROFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C

Sample ID: EB-SA6-SS-071311 *Collected:* 7/13/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C
DICHLORODIFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C
TRICHLOROFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: AQ**

Sample ID: TB-071311 *Collected:* 7/13/2011 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
ACETONE	6	U	6	MDL	20	PQL	ug/L	UJ	C
DICHLORODIFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C
TRICHLOROFLUOROMETHANE	2	U	2	MDL	5	PQL	ug/L	UJ	C

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-072-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.71	U	0.71	MDL	4.1	PQL	ug/Kg	UJ	C
ACETONE	8.6		6.8	MDL	8.2	PQL	ug/Kg	UJ	B, C
METHYLENE CHLORIDE	1.7	J	0.24	MDL	4.1	PQL	ug/Kg	UJ	L, B, F

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1,1,2-TETRACHLOROETHANE	0.11	U	0.11	MDL	4.1	PQL	ug/Kg	UJ	S
1,1,1-TRICHLOROETHANE	0.21	U	0.21	MDL	4.1	PQL	ug/Kg	UJ	S
1,1,2,2-TETRACHLOROETHANE	0.24	U	0.24	MDL	4.1	PQL	ug/Kg	UJ	S
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	0.11	U	0.11	MDL	4.1	PQL	ug/Kg	UJ	S
1,1,2-TRICHLOROETHANE	0.28	U	0.28	MDL	4.1	PQL	ug/Kg	UJ	S
1,1-DICHLOROETHANE	0.10	U	0.10	MDL	4.1	PQL	ug/Kg	UJ	S
1,1-DICHLOROETHENE	0.40	U	0.40	MDL	4.1	PQL	ug/Kg	UJ	S
1,1-DICHLOROPROPENE	0.13	U	0.13	MDL	4.1	PQL	ug/Kg	UJ	S
1,2,3-TRICHLOROBENZENE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
1,2,3-TRICHLOROPROPANE	0.34	U	0.34	MDL	4.1	PQL	ug/Kg	UJ	S
1,2,4-TRICHLOROBENZENE	0.19	U	0.19	MDL	4.1	PQL	ug/Kg	UJ	S
1,2,4-TRIMETHYLBENZENE	0.41	U	0.41	MDL	4.1	PQL	ug/Kg	UJ	S
1,2-DIBROMO-3-CHLOROPROPANE	0.72	U	0.72	MDL	4.1	PQL	ug/Kg	UJ	S, C
1,2-Dibromoethane (EDB)	0.18	U	0.18	MDL	4.1	PQL	ug/Kg	UJ	S
1,2-DICHLOROBENZENE	0.09	U	0.09	MDL	4.1	PQL	ug/Kg	UJ	S
1,2-DICHLOROETHANE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
1,2-DICHLOROPROPANE	0.18	U	0.18	MDL	4.1	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRIMETHYLBENZENE	0.10	U	0.10	MDL	4.1	PQL	ug/Kg	UJ	S
1,3-DICHLOROBENZENE	0.12	U	0.12	MDL	4.1	PQL	ug/Kg	UJ	S
1,3-DICHLOROPROPANE	0.08	U	0.08	MDL	4.1	PQL	ug/Kg	UJ	S
1,4-DICHLOROBENZENE	0.17	U	0.17	MDL	4.1	PQL	ug/Kg	UJ	S
2,2-DICHLOROPROPANE	0.18	U	0.18	MDL	4.1	PQL	ug/Kg	UJ	S
2-BUTANONE (MEK)	1.3	U	1.3	MDL	8.3	PQL	ug/Kg	UJ	S
2-Chloro-1,1,1-trifluoroethane	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	S
2-CHLOROETHYL VINYL ETHER	0.31	U	0.31	MDL	4.1	PQL	ug/Kg	UJ	S
2-CHLOROTOLUENE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
2-HEXANONE	1.7	U	1.7	MDL	8.3	PQL	ug/Kg	UJ	S
4-CHLOROTOLUENE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
4-METHYL-2-PENTANONE (MIBK)	0.40	U	0.40	MDL	8.3	PQL	ug/Kg	UJ	S
ACETONE	24		6.9	MDL	8.3	PQL	ug/Kg	UJ	B, S, C
BENZENE	0.10	U	0.10	MDL	4.1	PQL	ug/Kg	UJ	S
BROMOBENZENE	0.13	U	0.13	MDL	4.1	PQL	ug/Kg	UJ	S
BROMOCHLOROMETHANE	0.34	U	0.34	MDL	4.1	PQL	ug/Kg	UJ	S
BROMODICHLOROMETHANE	0.08	U	0.08	MDL	4.1	PQL	ug/Kg	UJ	S
BROMOFORM	0.41	U	0.41	MDL	4.1	PQL	ug/Kg	UJ	S
BROMOMETHANE	0.26	U	0.26	MDL	4.1	PQL	ug/Kg	UJ	S
CARBON TETRACHLORIDE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
CHLOROBENZENE	0.11	U	0.11	MDL	4.1	PQL	ug/Kg	UJ	S
CHLOROETHANE	0.13	U	0.13	MDL	4.1	PQL	ug/Kg	UJ	S
CHLOROFORM	0.12	U	0.12	MDL	4.1	PQL	ug/Kg	UJ	S
CHLOROMETHANE	0.34	U	0.34	MDL	4.1	PQL	ug/Kg	UJ	S
Chlorotrifluoroethylene	0.52	U	0.52	MDL	5.2	PQL	ug/Kg	UJ	S
CIS-1,2-DICHLOROETHENE	0.20	U	0.20	MDL	4.1	PQL	ug/Kg	UJ	S
CIS-1,3-DICHLOROPROPENE	0.17	U	0.17	MDL	4.1	PQL	ug/Kg	UJ	S
DIBROMOCHLOROMETHANE	0.21	U	0.21	MDL	4.1	PQL	ug/Kg	UJ	S
DIBROMOMETHANE	0.25	U	0.25	MDL	4.1	PQL	ug/Kg	UJ	S
DICHLORODIFLUOROMETHANE	0.12	U	0.12	MDL	4.1	PQL	ug/Kg	UJ	S
ETHYLBENZENE	0.06	U	0.06	MDL	4.1	PQL	ug/Kg	UJ	S
HEXACHLOROBUTADIENE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
ISOPROPYLBENZENE	0.06	U	0.06	MDL	4.1	PQL	ug/Kg	UJ	S
m,p-Xylene	0.18	U	0.18	MDL	4.1	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory:** LL

EDD Filename: PrepDE199_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-083-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 3:05:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYL TERT-BUTYL ETHER (MTBE)	0.22	U	0.22	MDL	4.1	PQL	ug/Kg	UJ	S
METHYLENE CHLORIDE	1.3	J	0.25	MDL	4.1	PQL	ug/Kg	UJ	L, B, S, F
N-BUTYLBENZENE	0.12	U	0.12	MDL	4.1	PQL	ug/Kg	UJ	S
N-PROPYLBENZENE	0.07	U	0.07	MDL	4.1	PQL	ug/Kg	UJ	S
O-XYLENE	0.18	U	0.18	MDL	4.1	PQL	ug/Kg	UJ	S
P-ISOPROPYLTOLUENE	0.11	U	0.11	MDL	4.1	PQL	ug/Kg	UJ	S
SEC-BUTYLBENZENE	0.06	U	0.06	MDL	4.1	PQL	ug/Kg	UJ	S
STYRENE	0.10	U	0.10	MDL	4.1	PQL	ug/Kg	UJ	S
TERT-BUTYLBENZENE	0.17	U	0.17	MDL	4.1	PQL	ug/Kg	UJ	S
TETRACHLOROETHENE	0.21	U	0.21	MDL	4.1	PQL	ug/Kg	UJ	S
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	UJ	B, S
TRANS-1,2-DICHLOROETHENE	0.12	U	0.12	MDL	4.1	PQL	ug/Kg	UJ	S
TRANS-1,3-DICHLOROPROPENE	0.18	U	0.18	MDL	4.1	PQL	ug/Kg	UJ	S
TRICHLOROETHENE	0.15	U	0.15	MDL	4.1	PQL	ug/Kg	UJ	S
TRICHLOROFLUOROMETHANE	0.30	U	0.30	MDL	4.1	PQL	ug/Kg	UJ	S
VINYL CHLORIDE	0.21	U	0.21	MDL	4.1	PQL	ug/Kg	UJ	S

Sample ID: SL-116-SA6-SB-2.5-3.5 *Collected:* 7/13/2011 9:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.75	U	0.75	MDL	4.3	PQL	ug/Kg	UJ	C
ACETONE	9.0		7.2	MDL	8.6	PQL	ug/Kg	UJ	B, C
METHYLENE CHLORIDE	2.2	J	0.26	MDL	4.3	PQL	ug/Kg	UJ	L, B, F

Sample ID: SL-118-SA6-SB-4.0-5.0 *Collected:* 7/13/2011 1:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DIBROMO-3-CHLOROPROPANE	0.68	U	0.68	MDL	3.9	PQL	ug/Kg	UJ	C
ACETONE	7.9		6.5	MDL	7.7	PQL	ug/Kg	UJ	B, C
METHYLENE CHLORIDE	1.4	J	0.23	MDL	3.9	PQL	ug/Kg	UJ	L, B, F
TOLUENE	0.10	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-278-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 9:10:00 *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	0.74	U	0.74	MDL	4.2	PQL	ug/Kg	UJ	C
ACETONE	7.7	J	7.0	MDL	8.4	PQL	ug/Kg	UJ	B, C
ISOPROPYLBENZENE	0.29	J	0.06	MDL	4.2	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.3	J	0.25	MDL	4.2	PQL	ug/Kg	UJ	L, B
TOLUENE	0.36	J	0.08	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*IX, 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

* 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: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE199

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE199 **Laboratory: LL**
EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB-SA6-SB-071311 (REA)	Sampling To Analysis	8.00	7.00	DAYS	J (all detects) UJ (all non-detects)

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: PrepDE199_v2 **eQAPP Name: CDM_SSFL_110509**

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-071311(RES)	7/13/2011 12:30:00 PM	BORON CALCIUM STRONTIUM	0.0074 mg/L 0.074 mg/L 0.00047 mg/L	SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-030-SA6-SS-0.0-0.5(REA)	BORON	2.96 mg/Kg	2.96U mg/Kg
SL-035-SA6-SS-0.0-0.5(REA)	BORON	1.69 mg/Kg	1.69U mg/Kg
SL-040-SA6-SS-0.0-0.5(REA)	BORON	1.77 mg/Kg	1.77U mg/Kg
SL-046-SA6-SS-0.0-0.5(REA)	BORON	0.823 mg/Kg	0.823U mg/Kg
SL-047-SA6-SS-0.0-0.5(REA)	BORON	1.00 mg/Kg	1.00U mg/Kg
SL-059-SA6-SS-0.0-0.5(REA)	BORON	0.632 mg/Kg	0.632U mg/Kg
SL-066-SA6-SS-0.0-0.5(REA)	BORON	1.02 mg/Kg	1.02U mg/Kg
SL-067-SA6-SS-0.0-0.5(REA)	BORON	1.31 mg/Kg	1.31U mg/Kg
SL-072-SA6-SB-4.0-5.0(REA)	BORON	1.05 mg/Kg	1.05U mg/Kg
SL-072-SA6-SB-9.0-10.0(REA)	BORON	0.772 mg/Kg	0.772U mg/Kg
SL-116-SA6-SB-2.5-3.5(REA)	BORON	0.422 mg/Kg	0.422U mg/Kg
SL-278-SA6-SS-0.0-0.5(REA)	BORON	1.63 mg/Kg	1.63U mg/Kg
SL-279-SA6-SS-0.0-0.5(REA)	BORON	2.43 mg/Kg	2.43U mg/Kg
SL-280-SA6-SS-0.0-0.5(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-300-SA6-SS-0.0-0.5(REA)	BORON	1.78 mg/Kg	1.78U mg/Kg

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-071311(RES)	7/13/2011 12:30:00 PM	METHYLENE CHLORIDE	3 ug/L	SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-072-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.1U ug/Kg
SL-083-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.1U ug/Kg
SL-116-SA6-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.3U ug/Kg
SL-118-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	3.9U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19648BB220643	7/19/2011 6:43:00 AM	BORON STRONTIUM	0.0043 mg/L 0.00029 mg/L	EB-SA6-SB-071311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-071311(RES)	BORON	0.0074 mg/L	0.0074U mg/L
EB-SA6-SB-071311(RES)	STRONTIUM	0.00047 mg/L	0.00047U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19908BB222248	7/24/2011 10:48:00 PM	IRON MANGANESE PHOSPHORUS STRONTIUM TIN TITANIUM Zirconium	4.55 mg/Kg 0.0471 mg/Kg 1.56 mg/Kg 0.0333 mg/Kg 1.55 mg/Kg 0.0765 mg/Kg 0.517 mg/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5
P19908BB222332	7/25/2011 11:32:00 PM	CALCIUM MAGNESIUM	6.19 mg/Kg 0.739 mg/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-030-SA6-SS-0.0-0.5(REA)	TIN	2.40 mg/Kg	2.40U mg/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **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-035-SA6-SS-0.0-0.5(REA)	TIN	1.93 mg/Kg	1.93U mg/Kg
SL-035-SA6-SS-0.0-0.5(REA)	Zirconium	2.28 mg/Kg	2.28U mg/Kg
SL-040-SA6-SS-0.0-0.5(REA)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-040-SA6-SS-0.0-0.5(REA)	Zirconium	2.41 mg/Kg	2.41U mg/Kg
SL-046-SA6-SS-0.0-0.5(REA)	TIN	1.80 mg/Kg	1.80U mg/Kg
SL-046-SA6-SS-0.0-0.5(REA)	Zirconium	1.44 mg/Kg	1.44U mg/Kg
SL-047-SA6-SS-0.0-0.5(REA)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-047-SA6-SS-0.0-0.5(REA)	Zirconium	1.64 mg/Kg	1.64U mg/Kg
SL-059-SA6-SS-0.0-0.5(REA)	TIN	2.06 mg/Kg	2.06U mg/Kg
SL-059-SA6-SS-0.0-0.5(REA)	Zirconium	1.60 mg/Kg	1.60U mg/Kg
SL-066-SA6-SS-0.0-0.5(REA)	TIN	2.05 mg/Kg	2.05U mg/Kg
SL-066-SA6-SS-0.0-0.5(REA)	Zirconium	1.84 mg/Kg	1.84U mg/Kg
SL-067-SA6-SS-0.0-0.5(REA)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-067-SA6-SS-0.0-0.5(REA)	Zirconium	2.06 mg/Kg	2.06U mg/Kg
SL-072-SA6-SB-4.0-5.0(REA)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-072-SA6-SB-4.0-5.0(REA)	Zirconium	2.35 mg/Kg	2.35U mg/Kg
SL-072-SA6-SB-9.0-10.0(REA)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-083-SA6-SB-4.0-5.0(REA)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-083-SA6-SB-9.0-10.0(REA)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-116-SA6-SB-2.5-3.5(REA)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-118-SA6-SB-10.5-11.5(REA)	TIN	1.86 mg/Kg	1.86U mg/Kg
SL-118-SA6-SB-10.5-11.5(REA)	Zirconium	1.21 mg/Kg	1.21U mg/Kg
SL-118-SA6-SB-4.0-5.0(REA)	TIN	1.79 mg/Kg	1.79U mg/Kg
SL-278-SA6-SS-0.0-0.5(REA)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-278-SA6-SS-0.0-0.5(REA2)	Zirconium	1.48 mg/Kg	1.48U mg/Kg
SL-279-SA6-SS-0.0-0.5(REA)	TIN	1.98 mg/Kg	1.98U mg/Kg
SL-279-SA6-SS-0.0-0.5(REA)	Zirconium	1.56 mg/Kg	1.56U mg/Kg
SL-280-SA6-SS-0.0-0.5(REA)	TIN	2.18 mg/Kg	2.18U mg/Kg
SL-281-SA6-SS-0.0-0.5(REA)	TIN	2.17 mg/Kg	2.17U mg/Kg
SL-281-SA6-SS-0.0-0.5(REA)	Zirconium	1.32 mg/Kg	1.32U mg/Kg
SL-300-SA6-SS-0.0-0.5(REA)	TIN	1.96 mg/Kg	1.96U mg/Kg
SL-300-SA6-SS-0.0-0.5(REA)	Zirconium	1.58 mg/Kg	1.58U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19926AB220104A	7/23/2011 1:04:00 AM	LEAD	0.0203 mg/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P01012AB240100A	7/23/2011 1:00:00 AM	2,4,5-T DICAMBA MCPP	0.090 ug/Kg 1.2 ug/Kg 470 ug/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-030-SA6-SS-0.0-0.5(RES)	MCPP	140 ug/Kg	260U ug/Kg
SL-047-SA6-SS-0.0-0.5(RES)	MCPP	380 ug/Kg	380U ug/Kg
SL-278-SA6-SS-0.0-0.5(RES)	MCPP	110 ug/Kg	260U ug/Kg
SL-279-SA6-SS-0.0-0.5(RES)	2,4,5-T	0.40 ug/Kg	0.40U ug/Kg
SL-280-SA6-SS-0.0-0.5(RES)	2,4,5-T	0.16 ug/Kg	0.18U ug/Kg
SL-300-SA6-SS-0.0-0.5(RES)	2,4,5-T	0.22 ug/Kg	0.22U ug/Kg
SL-300-SA6-SS-0.0-0.5(RES)	DICAMBA	0.66 ug/Kg	1.2U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE	9.3 ug/Kg	SL-072-SA6-SB-4.0-5.0
		CHLOROFORM	0.14 ug/Kg	SL-083-SA6-SB-4.0-5.0
		METHYLENE CHLORIDE	2.1 ug/Kg	SL-116-SA6-SB-2.5-3.5
		TOLUENE	0.11 ug/Kg	SL-118-SA6-SB-4.0-5.0
				SL-278-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-072-SA6-SB-4.0-5.0(RES)	ACETONE	8.6 ug/Kg	8.6U ug/Kg
SL-072-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.1U ug/Kg
SL-083-SA6-SB-4.0-5.0(RES)	ACETONE	24 ug/Kg	24U ug/Kg
SL-083-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.1U ug/Kg
SL-083-SA6-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.1U ug/Kg
SL-116-SA6-SB-2.5-3.5(RES)	ACETONE	9.0 ug/Kg	9.0U ug/Kg
SL-116-SA6-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.3U ug/Kg
SL-118-SA6-SB-4.0-5.0(RES)	ACETONE	7.9 ug/Kg	7.9U ug/Kg
SL-118-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	3.9U ug/Kg
SL-118-SA6-SB-4.0-5.0(RES)	TOLUENE	0.10 ug/Kg	3.9U ug/Kg
SL-278-SA6-SS-0.0-0.5(RES)	ACETONE	7.7 ug/Kg	8.4U ug/Kg
SL-278-SA6-SS-0.0-0.5(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.2U ug/Kg
SL-278-SA6-SS-0.0-0.5(RES)	TOLUENE	0.36 ug/Kg	4.2U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWL19B261146	8/1/2011 11:46:00 AM	BENZOIC ACID	83 ug/L	EB-SA6-SB-071311

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH19B260751	7/18/2011 7:51:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	0.21 ug/L	EB-SA6-SB-071311
		Di-n-butylphthalate	0.22 ug/L	

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-071311(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.21 ug/L	1.0U ug/L
EB-SA6-SB-071311(RES)	Di-n-butylphthalate	0.28 ug/L	1.0U ug/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLL20B260754	7/22/2011 7:54:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	6.5 ug/Kg 7.9 ug/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-030-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	63 ug/Kg	93U ug/Kg
SL-030-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	47 ug/Kg	93U ug/Kg
SL-035-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	48 ug/Kg	91U ug/Kg
SL-040-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	8.5 ug/Kg	19U ug/Kg
SL-046-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	9.9 ug/Kg	18U ug/Kg
SL-047-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	8.9 ug/Kg	18U ug/Kg
SL-059-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	24 ug/Kg	24U ug/Kg
SL-059-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	10 ug/Kg	18U ug/Kg
SL-066-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.7 ug/Kg	18U ug/Kg
SL-066-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	8.4 ug/Kg	18U ug/Kg
SL-067-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	89 ug/Kg	91U ug/Kg
SL-083-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	80 ug/Kg	96U ug/Kg
SL-083-SA6-SB-4.0-5.0(RES)	Di-n-butylphthalate	36 ug/Kg	96U ug/Kg
SL-083-SA6-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	48 ug/Kg	98U ug/Kg
SL-118-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	20U ug/Kg
SL-118-SA6-SB-4.0-5.0(RES)	Di-n-butylphthalate	10 ug/Kg	20U ug/Kg
SL-278-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	180 ug/Kg	460U ug/Kg
SL-279-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	19U ug/Kg
SL-279-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	9.1 ug/Kg	19U ug/Kg
SL-280-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	38 ug/Kg	94U ug/Kg
SL-280-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	36 ug/Kg	94U ug/Kg
SL-281-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	63 ug/Kg	92U ug/Kg
SL-281-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	36 ug/Kg	92U ug/Kg
SL-300-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	36 ug/Kg	93U ug/Kg
SL-300-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	35 ug/Kg	93U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_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-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	22 49 57	30 - -	59.00-109.00 63.00-107.00 63.00-107.00	31 (20.00) 34 (20.00) 33 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	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-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	4,4'-DDE DIELDRIN ENDOSULFAN II ENDRIN gamma-BHC (Lindane) HEPTACHLOR EPOXIDE	358 366 172 164 - 385	363 404 200 173 150 355	18.00-161.00 19.00-154.00 28.00-154.00 11.00-149.00 10.00-140.00 13.00-157.00	- - - - 62 (50.00) -	4,4'-DDE DIELDRIN ENDOSULFAN II ENDRIN gamma-BHC (Lindane) HEPTACHLOR EPOXIDE	No Qual, Diluted Out
SL-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	4,4'-DDD 4,4'-DDT ALDRIN BETA-BHC ENDOSULFAN I ENDOSULFAN SULFATE HEPTACHLOR	0 -1369 0 0 0 0 0	0 -1292 0 - 0 0 0	16.00-163.00 10.00-176.00 16.00-126.00 14.00-147.00 16.00-137.00 21.00-160.00 13.00-126.00	- - - 200 (50.00) - - -	4,4'-DDD 4,4'-DDT ALDRIN BETA-BHC ENDOSULFAN I ENDOSULFAN SULFATE HEPTACHLOR	No Qual, Diluted Out

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex) DICHLOROPROP	- -	- -	24.00-141.00 33.00-178.00	82 (35.00) 60 (50.00)	2,4,5-TP (Silvex) DICHLOROPROP	J(all detects)
SL-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	DINOSEB MCPA	0 -10	6 2	10.00-46.00 10.00-213.00	200 (35.00) -	DINOSEB MCPA	J(all detects) R(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-281-SA6-SS-0.0-0.5MS SL-281-SA6-SS-0.0-0.5MSD (SL-281-SA6-SS-0.0-0.5)	AROCLOR 1016 AROCLOR 1260	372 563	273 998	29.00-146.00 39.00-149.00	- 56 (50.00)	AROCLOR 1016 AROCLOR 1260	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **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-300-SA6-SS-0.0-0.5MS	m-Terphenyl	31	56	75.00-125.00	57 (20.00)	m-Terphenyl	J(all detects) UJ(all non-detects)
SL-300-SA6-SS-0.0-0.5MSD	O-TERPHENYL	36	64	75.00-125.00	57 (20.00)	O-TERPHENYL	
(SL-300-SA6-SS-0.0-0.5)	p-Terphenyl	34	60	75.00-125.00	57 (20.00)	p-Terphenyl	

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-280-SA6-SS-0.0-0.5MS	EFH (C12-C14)	144	126	49.00-123.00	-	EFH (C12-C14)	J(all detects)
SL-280-SA6-SS-0.0-0.5MSD							
(SL-280-SA6-SS-0.0-0.5)							
SL-280-SA6-SS-0.0-0.5MS	EFH (C21-C30)	-327	-1170	49.00-123.00	56 (20.00)	EFH (C21-C30)	J(all detects) R(all non-detects) EFH (C21-C30) and (C30-C40), No Qual, >4x
SL-280-SA6-SS-0.0-0.5MSD	EFH (C30-C40)	-511	-105	49.00-123.00	-	EFH (C30-C40)	
(SL-280-SA6-SS-0.0-0.5)	EFH (C8-C11)	-	0	49.00-123.00	200 (20.00)	EFH (C8-C11)	

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-280-SA6-SS-0.0-0.5MS	ARSENIC	127	-	75.00-125.00	-	ARSENIC	J(all detects)
(SL-030-SA6-SS-0.0-0.5							
SL -035-SA6-SS-0.0-0.5							
SL -040-SA6-SS-0.0-0.5							
SL -046-SA6-SS-0.0-0.5							
SL -047-SA6-SS-0.0-0.5							
SL -059-SA6-SS-0.0-0.5							
SL -066-SA6-SS-0.0-0.5							
SL -067-SA6-SS-0.0-0.5							
SL -072-SA6-SB-4.0-5.0							
SL -072-SA6-SB-9.0-10.0							
SL -083-SA6-SB-4.0-5.0							
SL -083-SA6-SB-9.0-10.0							
SL -116-SA6-SB-2.5-3.5							
SL -118-SA6-SB-10.5-11.5							
SL -118-SA6-SB-4.0-5.0							
SL -278-SA6-SS-0.0-0.5							
SL -279-SA6-SS-0.0-0.5							
SL -280-SA6-SS-0.0-0.5							
SL -281-SA6-SS-0.0-0.5							
SL -300-SA6-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_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-280-SA6-SS-0.0-0.5MS **SL-280-SA6-SS-0.0-0.5MSD** (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -072-SA6-SB-4.0-5.0 SL -072-SA6-SB-9.0-10.0 SL -083-SA6-SB-4.0-5.0 SL -083-SA6-SB-9.0-10.0 SL -116-SA6-SB-2.5-3.5 SL -118-SA6-SB-10.5-11.5 SL -118-SA6-SB-4.0-5.0 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	ANTIMONY	22	14	75.00-125.00	28 (20.00)	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 102%
SL-280-SA6-SS-0.0-0.5MS **SL-280-SA6-SS-0.0-0.5MSD** (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -072-SA6-SB-4.0-5.0 SL -072-SA6-SB-9.0-10.0 SL -083-SA6-SB-4.0-5.0 SL -083-SA6-SB-9.0-10.0 SL -116-SA6-SB-2.5-3.5 SL -118-SA6-SB-10.5-11.5 SL -118-SA6-SB-4.0-5.0 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	COPPER VANADIUM	- 74	65 -	75.00-125.00 75.00-125.00	- -	COPPER VANADIUM	J(all detects) UJ(all non-detects)
SL-280-SA6-SS-0.0-0.5MS **SL-280-SA6-SS-0.0-0.5MSD** (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -072-SA6-SB-4.0-5.0 SL -072-SA6-SB-9.0-10.0 SL -083-SA6-SB-4.0-5.0 SL -083-SA6-SB-9.0-10.0 SL -116-SA6-SB-2.5-3.5 SL -118-SA6-SB-10.5-11.5 SL -118-SA6-SB-4.0-5.0 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	BARIUM	164	160	75.00-125.00	-	BARIUM	No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_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-059-SA6-SS-0.0-0.5MS	ALUMINUM	807	999	75.00-125.00	-	ALUMINUM	
SL-059-SA6-SS-0.0-0.5MSD	MAGNESIUM	-	171	75.00-125.00	-	MAGNESIUM	
(SL-030-SA6-SS-0.0-0.5	TITANIUM	164	213	75.00-125.00	-	TITANIUM	
SL -035-SA6-SS-0.0-0.5							
SL -040-SA6-SS-0.0-0.5							
SL -046-SA6-SS-0.0-0.5							
SL -047-SA6-SS-0.0-0.5							
SL -059-SA6-SS-0.0-0.5							
SL -066-SA6-SS-0.0-0.5							
SL -067-SA6-SS-0.0-0.5							
SL -072-SA6-SB-4.0-5.0							
SL -072-SA6-SB-9.0-10.0							No Qual, >4x
SL -083-SA6-SB-4.0-5.0							
SL -083-SA6-SB-9.0-10.0							
SL -116-SA6-SB-2.5-3.5							
SL -118-SA6-SB-10.5-11.5							
SL -118-SA6-SB-4.0-5.0							
SL -278-SA6-SS-0.0-0.5							
SL -279-SA6-SS-0.0-0.5							
SL -280-SA6-SS-0.0-0.5							
SL -281-SA6-SS-0.0-0.5							
SL -300-SA6-SS-0.0-0.5)							
SL-059-SA6-SS-0.0-0.5MS	CALCIUM	-66	-147	75.00-125.00	-	CALCIUM	
SL-059-SA6-SS-0.0-0.5MSD	IRON	-34	1073	75.00-125.00	-	IRON	
(SL-030-SA6-SS-0.0-0.5							
SL -035-SA6-SS-0.0-0.5							
SL -040-SA6-SS-0.0-0.5							
SL -046-SA6-SS-0.0-0.5							
SL -047-SA6-SS-0.0-0.5							
SL -059-SA6-SS-0.0-0.5							
SL -066-SA6-SS-0.0-0.5							
SL -067-SA6-SS-0.0-0.5							
SL -072-SA6-SB-4.0-5.0							
SL -072-SA6-SB-9.0-10.0							No Qual, >4x
SL -083-SA6-SB-4.0-5.0							
SL -083-SA6-SB-9.0-10.0							
SL -116-SA6-SB-2.5-3.5							
SL -118-SA6-SB-10.5-11.5							
SL -118-SA6-SB-4.0-5.0							
SL -278-SA6-SS-0.0-0.5							
SL -279-SA6-SS-0.0-0.5							
SL -280-SA6-SS-0.0-0.5							
SL -281-SA6-SS-0.0-0.5							
SL -300-SA6-SS-0.0-0.5)							
SL-059-SA6-SS-0.0-0.5MS	MANGANESE	70	-	75.00-125.00	-	MANGANESE	
SL-059-SA6-SS-0.0-0.5MSD	PHOSPHORUS	233	-	75.00-125.00	28 (20.00)	PHOSPHORUS	
(SL-030-SA6-SS-0.0-0.5							
SL -035-SA6-SS-0.0-0.5							
SL -040-SA6-SS-0.0-0.5							
SL -046-SA6-SS-0.0-0.5							
SL -047-SA6-SS-0.0-0.5							
SL -059-SA6-SS-0.0-0.5							
SL -066-SA6-SS-0.0-0.5							J(all detects)
SL -067-SA6-SS-0.0-0.5							UJ(all non-detects)
SL -072-SA6-SB-4.0-5.0							
SL -072-SA6-SB-9.0-10.0							
SL -083-SA6-SB-4.0-5.0							
SL -083-SA6-SB-9.0-10.0							
SL -116-SA6-SB-2.5-3.5							
SL -118-SA6-SB-10.5-11.5							Mn, No Qual, >4x
SL -118-SA6-SB-4.0-5.0							
SL -278-SA6-SS-0.0-0.5							
SL -279-SA6-SS-0.0-0.5							
SL -280-SA6-SS-0.0-0.5							
SL -281-SA6-SS-0.0-0.5							
SL -300-SA6-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_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-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
SL-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	4,6-DINITRO-2-METHYLPHENOL BENZIDINE HEXACHLOROETHANE	10 34 55	- 32 -	24.00-116.00 35.00-141.00 57.00-109.00	- - -	4,6-DINITRO-2-METHYLPHEN BENZIDINE HEXACHLOROETHANE	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-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD (SL-280-SA6-SS-0.0-0.5)	Di-n-octylphthalate	201	201	40.00-192.00	-	Di-n-octylphthalate	No Qual, Diluted Out

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-059-SA6-SS-0.0-0.5DUP	BORON	50	20.00	
(SL-030-SA6-SS-0.0-0.5	CALCIUM	43	20.00	
SL -035-SA6-SS-0.0-0.5				
SL -040-SA6-SS-0.0-0.5				
SL -046-SA6-SS-0.0-0.5				
SL -047-SA6-SS-0.0-0.5				
SL -059-SA6-SS-0.0-0.5				
SL -066-SA6-SS-0.0-0.5				J (all detects) UJ (all non-detects)
SL -067-SA6-SS-0.0-0.5				
SL -072-SA6-SB-4.0-5.0				
SL -072-SA6-SB-9.0-10.0				
SL -083-SA6-SB-4.0-5.0				
SL -083-SA6-SB-9.0-10.0				
SL -116-SA6-SB-2.5-3.5				B, No Qual, OK by Difference
SL -118-SA6-SB-10.5-11.5				
SL -118-SA6-SB-4.0-5.0				
SL -278-SA6-SS-0.0-0.5				
SL -279-SA6-SS-0.0-0.5				
SL -280-SA6-SS-0.0-0.5				
SL -281-SA6-SS-0.0-0.5				
SL -300-SA6-SS-0.0-0.5)				

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-278-SA6-SS-0.0-0.5DUP	FLUORIDE	200	20.00	
(SL-046-SA6-SS-0.0-0.5	Nitrate-NO3	25	20.00	
SL -072-SA6-SB-4.0-5.0				
SL -072-SA6-SB-9.0-10.0				
SL -083-SA6-SB-4.0-5.0				
SL -083-SA6-SB-9.0-10.0				No Qual, OK by Difference
SL -116-SA6-SB-2.5-3.5				
SL -118-SA6-SB-10.5-11.5				
SL -118-SA6-SB-4.0-5.0				
SL -278-SA6-SS-0.0-0.5				
SL -279-SA6-SS-0.0-0.5)				

Method: 9012B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-030-SA6-SS-0.0-0.5DUP	CYANIDE	200	20.00	
(SL-030-SA6-SS-0.0-0.5				
SL -035-SA6-SS-0.0-0.5				
SL -046-SA6-SS-0.0-0.5				No Qual, OK by Difference
SL -047-SA6-SS-0.0-0.5				
SL -066-SA6-SS-0.0-0.5				
SL -067-SA6-SS-0.0-0.5				
SL -278-SA6-SS-0.0-0.5)				

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-280-SA6-SS-0.0-0.5DUP (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	Nitrate-NO3	22	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-280-SA6-SS-0.0-0.5DUP	ANTIMONY	40	20.00	
(SL-030-SA6-SS-0.0-0.5	ARSENIC	33	20.00	
SL -035-SA6-SS-0.0-0.5	CADMIUM	35	20.00	
SL -040-SA6-SS-0.0-0.5	COBALT	34	20.00	
SL -046-SA6-SS-0.0-0.5				
SL -047-SA6-SS-0.0-0.5				
SL -059-SA6-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL -066-SA6-SS-0.0-0.5				
SL -067-SA6-SS-0.0-0.5				
SL -072-SA6-SB-4.0-5.0				
SL -072-SA6-SB-9.0-10.0				
SL -083-SA6-SB-4.0-5.0				
SL -083-SA6-SB-9.0-10.0				Sb, Cd, No Qual, OK by Difference
SL -116-SA6-SB-2.5-3.5				
SL -118-SA6-SB-10.5-11.5				
SL -118-SA6-SB-4.0-5.0				
SL -278-SA6-SS-0.0-0.5				
SL -279-SA6-SS-0.0-0.5				
SL -280-SA6-SS-0.0-0.5				
SL -281-SA6-SS-0.0-0.5				
SL -300-SA6-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-281-SA6-SS-0.0-0.5DUP (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -072-SA6-SB-4.0-5.0 SL -072-SA6-SB-9.0-10.0 SL -083-SA6-SB-4.0-5.0 SL -083-SA6-SB-9.0-10.0 SL -116-SA6-SB-2.5-3.5 SL -118-SA6-SB-10.5-11.5 SL -118-SA6-SB-4.0-5.0 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	32	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11990AQ242235A P11990AY242318A (EB-SA6-SB-071311)	PETN	121	125	80.00-120.00	-	PETN	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WHLCSY260855 (EB-SA6-SB-071311)	ACENAPHTHYLENE FLUORENE	- -	112 115	70.00-110.00 75.00-114.00	- -	ACENAPHTHYLENE FLUORENE	J(all detects)
P7WHLCSY260855 (EB-SA6-SB-071311)	Dimethylphthalate	-	-	40.00-119.00	45 (30.00)	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7WLLCSY261236 (EB-SA6-SB-071311)	2,4,5-TRICHLOROPHENOL	-	109	79.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12012AQ240127A (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	DINOSEB	6	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **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
P12012AQ240127A (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex)	64	-	68.00-114.00	-	2,4,5-TP (Silvex)	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
P19926AQ220107A (SL-030-SA6-SS-0.0-0.5 SL -035-SA6-SS-0.0-0.5 SL -040-SA6-SS-0.0-0.5 SL -046-SA6-SS-0.0-0.5 SL -047-SA6-SS-0.0-0.5 SL -059-SA6-SS-0.0-0.5 SL -066-SA6-SS-0.0-0.5 SL -067-SA6-SS-0.0-0.5 SL -072-SA6-SB-4.0-5.0 SL -072-SA6-SB-9.0-10.0 SL -083-SA6-SB-4.0-5.0 SL -083-SA6-SB-9.0-10.0 SL -116-SA6-SB-2.5-3.5 SL -118-SA6-SB-10.5-11.5 SL -118-SA6-SB-4.0-5.0 SL -278-SA6-SS-0.0-0.5 SL -279-SA6-SS-0.0-0.5 SL -280-SA6-SS-0.0-0.5 SL -281-SA6-SS-0.0-0.5 SL -300-SA6-SS-0.0-0.5)	ANTIMONY	54	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19908BQ222252	ALUMINUM	129	-	80.00-120.00	-	ALUMINUM	
(SL-030-SA6-SS-0.0-0.5	TITANIUM	150	-	80.00-120.00	-	TITANIUM	
SL -035-SA6-SS-0.0-0.5							
SL -040-SA6-SS-0.0-0.5							
SL -046-SA6-SS-0.0-0.5							
SL -047-SA6-SS-0.0-0.5							
SL -059-SA6-SS-0.0-0.5							
SL -066-SA6-SS-0.0-0.5							
SL -067-SA6-SS-0.0-0.5							No Qual, SRM within QC Limits
SL -072-SA6-SB-4.0-5.0							
SL -072-SA6-SB-9.0-10.0							
SL -083-SA6-SB-4.0-5.0							
SL -083-SA6-SB-9.0-10.0							
SL -116-SA6-SB-2.5-3.5							
SL -118-SA6-SB-10.5-11.5							
SL -118-SA6-SB-4.0-5.0							
SL -278-SA6-SS-0.0-0.5							
SL -279-SA6-SS-0.0-0.5							
SL -280-SA6-SS-0.0-0.5							
SL -281-SA6-SS-0.0-0.5							
SL -300-SA6-SS-0.0-0.5)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LHLCSQ262049	2,4-DINITROPHENOL	16	-	37.00-120.00	-	2,4-DINITROPHENOL	
(SL-030-SA6-SS-0.0-0.5	4,6-DINITRO-2-METHYLPHENOL	30	-	53.00-110.00	-	4,6-DINITRO-2-METHYLPHEN	
SL -035-SA6-SS-0.0-0.5	BENZOIC ACID	38	-	62.00-154.00	-	BENZOIC ACID	
SL -040-SA6-SS-0.0-0.5							
SL -046-SA6-SS-0.0-0.5							
SL -047-SA6-SS-0.0-0.5							
SL -059-SA6-SS-0.0-0.5							
SL -066-SA6-SS-0.0-0.5							
SL -067-SA6-SS-0.0-0.5							
SL -072-SA6-SB-4.0-5.0							
SL -072-SA6-SB-9.0-10.0							J(all detects) UJ(all non-detects)
SL -083-SA6-SB-4.0-5.0							
SL -083-SA6-SB-9.0-10.0							
SL -116-SA6-SB-2.5-3.5							
SL -118-SA6-SB-10.5-11.5							
SL -118-SA6-SB-4.0-5.0							
SL -278-SA6-SS-0.0-0.5							
SL -279-SA6-SS-0.0-0.5							
SL -280-SA6-SS-0.0-0.5							
SL -281-SA6-SS-0.0-0.5							
SL -300-SA6-SS-0.0-0.5)							

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSB16Q211423A **LCSB16Y211251A** (SL-072-SA6-SB-4.0-5.0 SL -083-SA6-SB-4.0-5.0 SL -116-SA6-SB-2.5-3.5 SL -118-SA6-SB-4.0-5.0 SL -278-SA6-SS-0.0-0.5)	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-030-SA6-SS-0.0 -0.5	ACETONE	149	42.00-138.00	All Target Analytes	J(all detects)
SL-035-SA6-SS-0.0 -0.5	n-Triacontane-d62	46	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-281-SA6-SS-0.0 -0.5	n-Triacontane-d62	1	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)
SL-300-SA6-SS-0.0 -0.5	n-Triacontane-d62	26	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-035-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	1085	20.00-120.00	All Target Analytes	J(all detects)
SL-066-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	41	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-278-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	596	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-278-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	0	45.00-120.00	All Target Analytes	J(all detects) R(all non-detects)
SL-278-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	16	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-300-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	31 27	45.00-120.00 53.00-139.00	All Target Analytes	No Qual, Diluted Out

Method: 8260B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-083-SA6-SB-4.0 -5.0	DIBROMOFLUOROMETHANE	77	80.00-120.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-083-SA6-SB-4.0 -5.0	2,4,6-TRIBROMOPHENOL	22	35.00-130.00	No Affected Compounds	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-083-SA6-SB-9.0 -10.0	2,4,6-TRIBROMOPHENOL	144	35.00-130.00	All Target Analytes	J(all detects)
	2-FLUOROBIPHENYL	187	45.00-130.00		
	2-FLUOROPHENOL	186	25.00-130.00		
	Nitrobenzene-d5	181	40.00-130.00		
	PHENOL-D6	188	25.00-120.00		
	Terphenyl-d14	156	45.00-135.00		

Method: 8270C SIM
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-071311	Nitrobenzene-d5	134	40.00-130.00	No Affected Compounds	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-071311	BORON	J	0.0074	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0740	0.200	PQL	mg/L	
	STRONTIUM	J	0.00047	0.0050	PQL	mg/L	

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-071311	METHYLENE CHLORIDE	J	3	5	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-071311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.21	1.0	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.28	1.0	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	BORON	J	2.96	5.04	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	10.1	PQL	mg/Kg	
	Zirconium	J	2.97	5.04	PQL	mg/Kg	
SL-035-SA6-SS-0.0-0.5	BORON	J	1.69	4.97	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.5	99.4	PQL	mg/Kg	
	TIN	J	1.93	9.94	PQL	mg/Kg	
	Zirconium	J	2.28	4.97	PQL	mg/Kg	
SL-040-SA6-SS-0.0-0.5	BORON	J	1.77	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	58.0	102	PQL	mg/Kg	
	TIN	J	2.44	10.2	PQL	mg/Kg	
	Zirconium	J	2.41	5.12	PQL	mg/Kg	
SL-046-SA6-SS-0.0-0.5	BORON	J	0.823	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.9	100	PQL	mg/Kg	
	TIN	J	1.80	10.0	PQL	mg/Kg	
	Zirconium	J	1.44	5.00	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA6-SS-0.0-0.5	BORON	J	1.00	5.06	PQL	mg/Kg	J (all detects)
	SODIUM	J	53.9	101	PQL	mg/Kg	
	TIN	J	2.30	10.1	PQL	mg/Kg	
	Zirconium	J	1.64	5.06	PQL	mg/Kg	
SL-059-SA6-SS-0.0-0.5	BORON	J	0.632	4.83	PQL	mg/Kg	J (all detects)
	TIN	J	2.06	9.66	PQL	mg/Kg	
	Zirconium	J	1.60	4.83	PQL	mg/Kg	
SL-066-SA6-SS-0.0-0.5	BORON	J	1.02	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	59.0	100	PQL	mg/Kg	
	TIN	J	2.05	10.0	PQL	mg/Kg	
	Zirconium	J	1.84	5.01	PQL	mg/Kg	
SL-067-SA6-SS-0.0-0.5	BORON	J	1.31	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.0	101	PQL	mg/Kg	
	TIN	J	2.24	10.1	PQL	mg/Kg	
	Zirconium	J	2.06	5.05	PQL	mg/Kg	
SL-072-SA6-SB-4.0-5.0	BORON	J	1.05	5.41	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.8	PQL	mg/Kg	
	Zirconium	J	2.35	5.41	PQL	mg/Kg	
SL-072-SA6-SB-9.0-10.0	BORON	J	0.772	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.0	PQL	mg/Kg	
	Zirconium	J	2.94	5.48	PQL	mg/Kg	
SL-083-SA6-SB-4.0-5.0	TIN	J	2.20	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.01	5.34	PQL	mg/Kg	
SL-083-SA6-SB-9.0-10.0	TIN	J	2.52	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.83	5.47	PQL	mg/Kg	
SL-116-SA6-SB-2.5-3.5	BORON	J	0.422	5.17	PQL	mg/Kg	J (all detects)
	TIN	J	2.50	10.3	PQL	mg/Kg	
	Zirconium	J	2.59	5.17	PQL	mg/Kg	
SL-118-SA6-SB-10.5-11.5	TIN	J	1.86	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.21	5.24	PQL	mg/Kg	
SL-118-SA6-SB-4.0-5.0	BORON	J	4.00	5.42	PQL	mg/Kg	J (all detects)
	TIN	J	1.79	10.8	PQL	mg/Kg	
	Zirconium	J	3.68	5.42	PQL	mg/Kg	
SL-278-SA6-SS-0.0-0.5	BORON	J	1.63	4.93	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	9.86	PQL	mg/Kg	
	Zirconium	J	1.48	4.93	PQL	mg/Kg	
SL-279-SA6-SS-0.0-0.5	BORON	J	2.43	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.5	100	PQL	mg/Kg	
	TIN	J	1.98	10.0	PQL	mg/Kg	
	Zirconium	J	1.56	5.00	PQL	mg/Kg	
SL-280-SA6-SS-0.0-0.5	BORON	J	2.91	5.16	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.4	103	PQL	mg/Kg	
	TIN	J	2.18	10.3	PQL	mg/Kg	
	Zirconium	J	2.83	5.16	PQL	mg/Kg	
SL-281-SA6-SS-0.0-0.5	TIN	J	2.17	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.32	5.07	PQL	mg/Kg	
SL-300-SA6-SS-0.0-0.5	BORON	J	1.78	4.95	PQL	mg/Kg	J (all detects)
	TIN	J	1.96	9.89	PQL	mg/Kg	
	Zirconium	J	1.58	4.95	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.164 0.163 0.0963	0.206 0.411 0.103	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-035-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.0883 0.0296	0.406 0.101	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-040-SA6-SS-0.0-0.5	SELENIUM	J	0.0966	0.402	PQL	mg/Kg	J (all detects)
SL-046-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.169 0.0309	0.404 0.101	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-047-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.177 0.0633	0.404 0.101	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-059-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.0842 0.0194	0.387 0.0966	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-066-SA6-SS-0.0-0.5	CADMIUM SELENIUM SILVER	J J J	0.0810 0.0776 0.0257	0.101 0.405 0.101	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-067-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.112 0.0291	0.396 0.0990	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-072-SA6-SB-4.0-5.0	CADMIUM SILVER	J J	0.0616 0.0405	0.109 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-072-SA6-SB-9.0-10.0	CADMIUM SELENIUM SILVER	J J J	0.0615 0.0748 0.0611	0.115 0.460 0.115	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-083-SA6-SB-4.0-5.0	ANTIMONY SELENIUM SILVER	J J J	0.0996 0.0912 0.0360	0.213 0.427 0.107	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-083-SA6-SB-9.0-10.0	ANTIMONY SELENIUM SILVER	J J J	0.0974 0.0891 0.0416	0.219 0.438 0.109	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-116-SA6-SB-2.5-3.5	CADMIUM SILVER	J J	0.0625 0.0378	0.104 0.104	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-118-SA6-SB-10.5-11.5	SILVER	J	0.0180	0.102	PQL	mg/Kg	J (all detects)
SL-118-SA6-SB-4.0-5.0	SELENIUM SILVER	J J	0.137 0.0297	0.447 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-278-SA6-SS-0.0-0.5	SELENIUM	J	0.219	0.398	PQL	mg/Kg	J (all detects)
SL-279-SA6-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.0967 0.0854 0.0684	0.206 0.412 0.103	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-280-SA6-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.117 0.109 0.0442	0.206 0.413 0.103	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-281-SA6-SS-0.0-0.5	ANTIMONY SELENIUM SILVER	J J J	0.157 0.126 0.0481	0.205 0.410 0.102	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-300-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.0670 0.0620	0.412 0.103	PQL PQL	mg/Kg mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.67	1.0	PQL	mg/Kg	J (all detects)
SL-059-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-066-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.0	PQL	mg/Kg	J (all detects)
SL-072-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-072-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.95	1.2	PQL	mg/Kg	J (all detects)
SL-083-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-083-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.55	1.1	PQL	mg/Kg	J (all detects)
SL-116-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-118-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.2	PQL	mg/Kg	J (all detects)
SL-279-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-281-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.55	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA6-SS-0.0-0.5	MERCURY	J	0.0183	0.0990	PQL	mg/Kg	J (all detects)
SL-040-SA6-SS-0.0-0.5	MERCURY	J	0.0184	0.102	PQL	mg/Kg	J (all detects)
SL-047-SA6-SS-0.0-0.5	MERCURY	J	0.0232	0.0996	PQL	mg/Kg	J (all detects)
SL-066-SA6-SS-0.0-0.5	MERCURY	J	0.0454	0.0973	PQL	mg/Kg	J (all detects)
SL-067-SA6-SS-0.0-0.5	MERCURY	J	0.0258	0.0967	PQL	mg/Kg	J (all detects)
SL-116-SA6-SB-2.5-3.5	MERCURY	J	0.0107	0.103	PQL	mg/Kg	J (all detects)
SL-118-SA6-SB-10.5-11.5	MERCURY	J	0.0593	0.103	PQL	mg/Kg	J (all detects)
SL-118-SA6-SB-4.0-5.0	MERCURY	J	0.0186	0.105	PQL	mg/Kg	J (all detects)
SL-281-SA6-SS-0.0-0.5	MERCURY	J	0.0682	0.101	PQL	mg/Kg	J (all detects)
SL-300-SA6-SS-0.0-0.5	MERCURY	J	0.0599	0.0982	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	EFH (C8-C11)	J	1.0	2.5	PQL	mg/Kg	J (all detects)
SL-035-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.1	6.1	PQL	mg/Kg	J (all detects)
SL-040-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.2	6.2	PQL	mg/Kg	J (all detects)
SL-046-SA6-SS-0.0-0.5	EFH (C15-C20) EFH (C8-C11)	J J	1.1 0.44	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-047-SA6-SS-0.0-0.5	EFH (C15-C20)	J	1.1	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.68	1.2	PQL	mg/Kg	J (all detects)
SL-066-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.95	1.2	PQL	mg/Kg	J (all detects)
SL-072-SA6-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	1.2 0.67	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-118-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.58	1.3	PQL	mg/Kg	J (all detects)
SL-279-SA6-SS-0.0-0.5	EFH (C15-C20)	J	2.1	6.2	PQL	mg/Kg	J (all detects)
SL-281-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.2	6.1	PQL	mg/Kg	J (all detects)
SL-300-SA6-SS-0.0-0.5	EFH (C15-C20)	J	3.6	6.2	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.051	0.17	PQL	ug/Kg	J (all detects)
SL-035-SA6-SS-0.0-0.5	DELTA-BHC	J	0.099	0.17	PQL	ug/Kg	J (all detects)
SL-046-SA6-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J J	2.3 0.076	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-047-SA6-SS-0.0-0.5	ALPHA-BHC	J	0.045	0.17	PQL	ug/Kg	J (all detects)
SL-059-SA6-SS-0.0-0.5	DELTA-BHC	J	0.071	0.17	PQL	ug/Kg	J (all detects)
SL-066-SA6-SS-0.0-0.5	4,4'-DDT DELTA-BHC ENDRIN ALDEHYDE HEPTACHLOR MIREX	J J J J J	0.32 0.054 0.090 0.073 0.31	0.34 0.17 0.34 0.17 0.34	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-067-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.054	0.17	PQL	ug/Kg	J (all detects)
SL-278-SA6-SS-0.0-0.5	ALDRIN	J	0.073	0.17	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA6-SS-0.0-0.5	Aroclor 5460	J	2.3	3.3	PQL	ug/Kg	J (all detects)
SL-280-SA6-SS-0.0-0.5	Aroclor 5460	J	1.1	3.4	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	MCPP	J	140	260	PQL	ug/Kg	J (all detects)
SL-278-SA6-SS-0.0-0.5	MCPA MCPP	J J	110 110	260 260	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-280-SA6-SS-0.0-0.5	2,4,5-T	J	0.16	0.18	PQL	ug/Kg	J (all detects)
SL-281-SA6-SS-0.0-0.5	MCPA	J	110	260	PQL	ug/Kg	J (all detects)
SL-300-SA6-SS-0.0-0.5	DICAMBA	J	0.66	1.2	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-072-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.7	4.1	PQL	ug/Kg	J (all detects)
SL-083-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.11	4.1	PQL	ug/Kg	
SL-116-SA6-SB-2.5-3.5	METHYLENE CHLORIDE	J	2.2	4.3	PQL	ug/Kg	J (all detects)
SL-118-SA6-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.4	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	3.9	PQL	ug/Kg	
SL-278-SA6-SS-0.0-0.5	ACETONE	J	7.7	8.4	PQL	ug/Kg	J (all detects)
	ISOPROPYLBENZENE	J	0.29	4.2	PQL	ug/Kg	
	METHYLENE CHLORIDE	J	1.3	4.2	PQL	ug/Kg	
	TOLUENE	J	0.36	4.2	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	Butylbenzylphthalate	J	98	170	PQL	ug/Kg	J (all detects)
SL-035-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	35	170	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	46	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	32	170	PQL	ug/Kg	
	CHRYSENE	J	79	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	94	170	PQL	ug/Kg	
	FLUORANTHENE	J	25	170	PQL	ug/Kg	
SL-040-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	68	350	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	140	170	PQL	ug/Kg	
SL-046-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)
SL-047-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	20	170	PQL	ug/Kg	
SL-059-SA6-SS-0.0-0.5	ACENAPHTHENE	J	29	170	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	52	170	PQL	ug/Kg	
	BENZO(A)PYRENE	J	150	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	79	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	90	170	PQL	ug/Kg	
	CARBAZOLE	J	36	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	26	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	79	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA6-SB-4.0-5.0	ANTHRACENE	J	22	180	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	150	180	PQL	ug/Kg	
	BENZO(A)PYRENE	J	160	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	100	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	89	180	PQL	ug/Kg	
	CHRYSENE	J	170	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	34	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	77	180	PQL	ug/Kg	
	NAPHTHALENE	J	24	180	PQL	ug/Kg	
	PHENANTHRENE	J	99	180	PQL	ug/Kg	
SL-083-SA6-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	31	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	44	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	48	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	36	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	26	180	PQL	ug/Kg	
	CHRYSENE	J	43	180	PQL	ug/Kg	
	FLUORANTHENE	J	47	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	33	180	PQL	ug/Kg	
	PYRENE	J	60	180	PQL	ug/Kg	
SL-281-SA6-SS-0.0-0.5	PHENANTHRENE	J	20	170	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	ANTHRACENE	J	2.5	8.6	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	63	93	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	5.8	8.6	PQL	ug/Kg	
	Di-n-butylphthalate	J	47	93	PQL	ug/Kg	
	Di-n-octylphthalate	J	32	93	PQL	ug/Kg	
SL-035-SA6-SS-0.0-0.5	ANTHRACENE	J	2.6	8.5	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	91	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	7.8	8.5	PQL	ug/Kg	
	Di-n-octylphthalate	J	35	91	PQL	ug/Kg	
	PHENANTHRENE	J	5.8	8.5	PQL	ug/Kg	
SL-040-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.80	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.5	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-046-SA6-SS-0.0-0.5	ANTHRACENE	J	0.54	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.97	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.9	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.9	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.72	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.90	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.4	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.9	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.7	PQL	ug/Kg	
SL-059-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.4	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	10	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	18	PQL	ug/Kg	
SL-066-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.7	18	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	8.4	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.2	18	PQL	ug/Kg	
SL-067-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	4.8	8.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	4.2	8.4	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	89	91	PQL	ug/Kg	
	Butylbenzylphthalate	J	62	91	PQL	ug/Kg	
	CHRYSENE	J	3.3	8.4	PQL	ug/Kg	
	Di-n-octylphthalate	J	34	91	PQL	ug/Kg	
	FLUORANTHENE	J	6.3	8.4	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.6	8.4	PQL	ug/Kg	
	PHENANTHRENE	J	3.4	8.4	PQL	ug/Kg	
	PYRENE	J	4.6	8.4	PQL	ug/Kg	
SL-072-SA6-SB-4.0-5.0	Di-n-octylphthalate	J	6.7	20	PQL	ug/Kg	J (all detects)
SL-072-SA6-SB-9.0-10.0	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	J (all detects)
SL-083-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	80	96	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	51	96	PQL	ug/Kg	
	Di-n-butylphthalate	J	36	96	PQL	ug/Kg	
	Di-n-octylphthalate	J	51	96	PQL	ug/Kg	
SL-083-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	48	98	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	37	98	PQL	ug/Kg	
	PHENANTHRENE	J	5.9	9.1	PQL	ug/Kg	
SL-116-SA6-SB-2.5-3.5	Di-n-octylphthalate	J	6.6	19	PQL	ug/Kg	J (all detects)
SL-118-SA6-SB-10.5-11.5	Di-n-octylphthalate	J	8.3	19	PQL	ug/Kg	J (all detects)
SL-118-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.86	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	20	PQL	ug/Kg	
	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	10	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.6	20	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-278-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	36	43	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	33	43	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	180	460	PQL	ug/Kg	
	CHRYSENE	J	23	43	PQL	ug/Kg	
	Di-n-octylphthalate	J	170	460	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE199 **Laboratory: LL**

EDD Filename: DE199_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SS-0.0-0.5	Butylbenzylphthalate	J	6.3	19	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.86	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.1	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	8.0	19	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
SL-280-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	5.4	8.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	94	PQL	ug/Kg	
	CHRYSENE	J	4.5	8.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	36	94	PQL	ug/Kg	
	FLUORANTHENE	J	4.2	8.7	PQL	ug/Kg	
SL-281-SA6-SS-0.0-0.5	ANTHRACENE	J	3.3	8.5	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	63	92	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	7.9	8.5	PQL	ug/Kg	
	Di-n-butylphthalate	J	36	92	PQL	ug/Kg	
SL-300-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	5.2	8.6	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.8	8.6	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	36	93	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	3.3	8.6	PQL	ug/Kg	
	Di-n-butylphthalate	J	35	93	PQL	ug/Kg	
	NAPHTHALENE	J	4.7	8.6	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	FORMALDEHYDE	J	700	1500	PQL	ug/Kg	J (all detects)
SL-278-SA6-SS-0.0-0.5	FORMALDEHYDE	J	870	1500	PQL	ug/Kg	J (all detects)

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 13, 2011

LDC Report Date: October 26, 2011

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-278-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-083-SA6-SB-4.0-5.0
TB-071311
EB-SA6-SB-071311
EB-SA6-SS-071311

Introduction

This data review covers 5 soil samples and 3 water samples 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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
7/14/11	Acetone 1,2-Dibromo-3-chloropropane	42 27	All soil samples in SDG DE199	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
7/15/11	Dichlorodifluoromethane Trichlorofluoromethane Acetone	32 26 34	All water samples in SDG DE199	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.

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
VBLKB16	7/14/11	Acetone Methylene chloride Chloroform Toluene	9.3 ug/Kg 2.1 ug/Kg 0.14 ug/Kg 0.11 ug/Kg	All soil samples in SDG DE199

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-278-SA6-SS-0.0-0.5	Acetone Methylene chloride Toluene	7.7 ug/Kg 1.3 ug/Kg 0.36 ug/Kg	8.4U ug/Kg 4.2U ug/Kg 4.2U ug/Kg
SL-072-SA6-SB-4.0-5.0	Acetone Methylene chloride	8.6 ug/Kg 1.7 ug/Kg	8.6U ug/Kg 4.1U ug/Kg
SL-116-SA6-SB-2.5-3.5	Acetone Methylene chloride	9.0 ug/Kg 2.2 ug/Kg	9.0U ug/Kg 4.3U ug/Kg
SL-118-SA6-SB-4.0-5.0	Acetone Methylene chloride Toluene	7.9 ug/Kg 1.4 ug/Kg 0.10 ug/Kg	7.9U ug/Kg 3.9U ug/Kg 3.9U ug/Kg
SL-083-SA6-SB-4.0-5.0	Acetone Methylene chloride Toluene	24 ug/Kg 1.3 ug/Kg 0.11 ug/Kg	24U ug/Kg 4.1U ug/Kg 4.1U ug/Kg

Sample TB-071311 was identified as a trip blank. No volatile contaminants were found.

Samples EB-SA6-SB-071311 and EB-SA6-SS-071311 were identified as equipment blanks. No volatile contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SB-071311	7/13/11	Methylene chloride	3.0 ug/L	SL-072-SA6-SB-4.0-5.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-083-SA6-SB-4.0-5.0

Sample concentrations were compared to concentrations detected in the field 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 field blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-072-SA6-SB-4.0-5.0	Methylene chloride	1.7 ug/Kg	4.1U ug/Kg
SL-116-SA6-SB-2.5-3.5	Methylene chloride	2.2 ug/Kg	4.3U ug/Kg
SL-118-SA6-SB-4.0-5.0	Methylene chloride	1.4 ug/Kg	3.9U ug/Kg
SL-083-SA6-SB-4.0-5.0	Methylene chloride	1.3 ug/Kg	4.1U ug/Kg

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	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-083-SA6-SB-4.0-5.0	Dibromofluoromethane	77 (80-120)	All TCL compounds	J (all detects) UJ (all non-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)	Flag	A or P
LCS1B16 (All soil samples in SDG DE199)	Methylene chloride	129 (76-124)	127 (76-124)	-	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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-278-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-083-SA6-SB-4.0-5.0	Acetone 1,2-Dibromo-3-chloropropane	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE199	TB-071311 EB-SA6-SB-071311 EB-SA6-SS-071311	Dichlorodifluoromethane Trichlorofluoromethane Acetone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE199	SL-083-SA6-SB-4.0-5.0	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (S)
DE199	SL-278-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-083-SA6-SB-4.0-5.0	Methylene chloride	J (all detects)	P	Laboratory control samples (%R) (L)
DE199	SL-278-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-083-SA6-SB-4.0-5.0 TB-071311 EB-SA6-SB-071311 EB-SA6-SS-071311	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE199

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE199	SL-278-SA6-SS-0.0-0.5	Acetone Methylene chloride Toluene	8.4U ug/Kg 4.2U ug/Kg 4.2U ug/Kg	A	B
DE199	SL-072-SA6-SB-4.0-5.0	Acetone Methylene chloride	8.6U ug/Kg 4.1U ug/Kg	A	B
DE199	SL-116-SA6-SB-2.5-3.5	Acetone Methylene chloride	9.0U ug/Kg 4.3U ug/Kg	A	B
DE199	SL-118-SA6-SB-4.0-5.0	Acetone Methylene chloride Toluene	7.9U ug/Kg 3.9U ug/Kg 3.9U ug/Kg	A	B

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE199	SL-083-SA6-SB-4.0-5.0	Acetone Methylene chloride Toluene	24U ug/Kg 4.1U ug/Kg 4.1U ug/Kg	A	B

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE199

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE199	SL-072-SA6-SB-4.0-5.0	Methylene chloride	4.1U ug/Kg	A	F
DE199	SL-116-SA6-SB-2.5-3.5	Methylene chloride	4.3U ug/Kg	A	F
DE199	SL-118-SA6-SB-4.0-5.0	Methylene chloride	3.9U ug/Kg	A	F
DE199	SL-083-SA6-SB-4.0-5.0	Methylene chloride	4.1U ug/Kg	A	F

LDC #: 26407R1a **VALIDATION COMPLETENESS WORKSHEET** Date: 10/25/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: F
2nd Reviewer: A

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: 7/13/11
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	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.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	NI	TB = 6 EB = 7, 8

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

Validated Samples: soil + water

1	SL-278-SA6-SS-0.0-0.5 S	11	VBLKB16	21		31	
2	SL-072-SA6-SB-4.0-5.0	12	VBLKY31	22		32	
3	SL-116-SA6-SB-2.5-3.5	13		23		33	
4	SL-118-SA6-SB-4.0-5.0	14		24		34	
5	SL-083-SA6-SB-4.0-5.0	15		25		35	
6	TB-071311 W	16		26		36	
7	EB-SA6-SB-071311 W	17		27		37	
8	EB-SA6-SS-071311 W	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26407R/a

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) > 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. 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 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?	✓			

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/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 of data				
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 #: 26407R/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
	7/14/11	CCV	F	42		All soils	J/UJ/A (c)
	10:59		MM	27		↓	↓
	7/15/11	CCV	JJ	32		All waters	(c)
	08:49		KK	26		↓	↓
			F	34		↓	↓

LDC #: 26407R/a
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS VOA (EPA Method 8260B)

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: 7/14/11
Conc. units: ug/kg
Associated Samples: All SOILS

Compound	Blank ID	Sample Identification								
	VBLKB16		1	2	3	4	5			
F	9.3		7.7/8.4U	8.6/4	9.0/4	7.9/4	2U/4			
E	2.1		1.3/4.2U	1.7/4.1U	2.2/4.3U	1.4/3.9U	1.3/4.1U			
K	0.14		-	-	-	-	-			
CC	0.11		0.36/4.2U	-	-	0.10/3.9U	0.11/4.1U			
CRQL										

Blank analysis date: _____
Conc. units: _____
Associated Samples: _____

Compound	Blank ID	Sample Identification								
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

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 #: 26407R1a
SDG #: DE199

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: SM
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

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
Field blank type: (circle one) Field Blank / ~~Rinsate~~ / Trip Blank / Other: Associated Samples: 2-5

Compound	Blank ID	~~Blank ID~~	Sample Identification							
7/13/11 Sampling Date	7	x10	2	3	4	5				
Methylene chloride	3.0	30 ug/kg	1.7/4.1U	2.2/4.3U	1.4/3.9U	1.3/4.1U				
~~Acetone~~										
~~Chloroform~~										
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as Methylene chloride, Acetone, 2-Butanone and Carbon disulfide 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 #: 26407R/a

VALIDATION FINDINGS WORKSHEET
Surrogate Spikes

Page: 1 of 1
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 all surrogate %R within QC limits?

Y (N) N/A If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R out of outside of criteria?

#	Date	Lab ID/Reference	Surrogate	%Recovery (Limits)	Associated Samples	Qualifications
		5	DFM	77 (80-120)	5	J/UJ/P (S)
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		
				( )		

	QC Limits (Soil)	QC Limits (Water)
SMC1 (TOL) = Toluene-d8	81-117	88-110
SMC2 (BFB) = Bromofluorobenzene	74-121	86-115
SMC3 (DCE) = 1,2-Dichloroethane-d4	80-120	80-120
SMC4 (DFM) = Dibromofluoromethane	80-120	86-118

LDC #: 26407R/9

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

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 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
		LCS1816	E	129 (76-124)	127 (76-124)	( )	All soils	J/Pdet (2)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 26407R/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: A

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 (20 std)	Recalculated RRF (20 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	5/24/11	C (1st internal standard)	0.3396	0.3396	0.3517	0.3517	7	7
			CC (2nd internal standard)	0.8152	0.8152	0.8572	0.8572	5	5
			JJJ (3rd internal standard)	1.3349	1.3349	1.3695	1.3695	6	6
			(4th internal standard)						
2	ICAL.	5/12/11	C (1st internal standard)	0.4368	0.4368	0.4292	0.4292	10	10
			CC (2nd internal standard)	1.0260	1.0260	1.0444	1.0444	1	1
			JJJ (3rd internal standard)	1.6515	1.6515	1.6766	1.6766	3	3
			(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 #: 26467R1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

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 10:59	7/14/11	C	(1st internal standard)	0.3517	0.3342	0.3342	5	5
			CC	(2nd internal standard)	0.8572	0.9322	0.9322	9	9
			JJJ	(3rd internal standard)	1.3695	1.5207	1.5207	11	11
				(4th internal standard)					
2	ccv 08:49	7/15/11	C	(1st internal standard)	0.4292	0.3621	0.3621	16	16
			CC	(2nd internal standard)	1.0444	1.0117	1.0117	3	3
			JJJ	(3rd internal standard)	1.6766	1.7532	1.7532	5	5
				(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 #: 08640 (17A2

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: A

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	56.448	113	113	0
1,2-Dichloroethane-d4	↓	54.101	108	108	↓
Toluene-d8		49.092	98	98	
Bromofluorobenzene		48.449	97	97	

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 #: 26907A74

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/ID 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	20	23.69	22.61	118	118	113	113	5	5
Trichloroethene	↓	↓	20.73	20.35	104	104	102	102	2	2
Benzene			21.72	20.98	109	109	105	105	3	3
Toluene			21.85	21.23	109	109	106	106	3	3
Chlorobenzene			21.44	21.16	107	107	106	106	1	1

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 #: 26407R1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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. #1 , CC

Conc. = $\frac{(4332)(50)(\quad)}{(735038)(0.8572)(4.87)(0.98)}$

=

0.4 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: July 13, 2011

LDC Report Date: October 25, 2011

Matrix: Soil/Water

Parameters: 1,4-Dioxane

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-278-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-083-SA6-SB-4.0-5.0
TB-071311
EB-SA6-SB-071311
EB-SA6-SS-071311

Introduction

This data review covers 5 soil samples and 3 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 1,4-Dioxane.

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% for 1,4-Dioxane.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for 1,4-Dioxane.

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-071311 was identified as a trip blank. No 1,4-dioxane was found.

Samples EB-SA6-SB-071311 and EB-SA6-SS-071311 were identified as equipment blanks. No 1,4-dioxane was found.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-278-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-083-SA6-SB-4.0-5.0 TB-071311 EB-SA6-SB-071311 EB-SA6-SS-071311	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R1b **VALIDATION COMPLETENESS WORKSHEET** Date: 10/25/11
SDG #: DE199 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: 7/13/11
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	N	client specified
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/RL/LOQ/LODs	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 = 6 EB = 7, 8

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

Validated Samples: SOIL + water

1	SL-278-SA6-SS-0.0-0.5 S	11	VBLKE22	21		31	
2	SL-072-SA6-SB-4.0-5.0	12	VBLKE21	22		32	
3	SL-116-SA6-SB-2.5-3.5	13		23		33	
4	SL-118-SA6-SB-4.0-5.0	14		24		34	
5	SL-083-SA6-SB-4.0-5.0	15		25		35	
6	TB-071311 W	16		26		36	
7	EB-SA6-SB-071311 W	17		27		37	
8	EB-SA6-SS-071311 W	18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26407R16

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 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?	✓			

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?	NA		✓	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	NA		✓	
Were chromatogram peaks verified and accounted for?	✓			
XII. 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?	✓			
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 of data				
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-Dichloroethena, 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 #: 26407R1b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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	6/17/11	1,4-Dioxane (1st internal standard)	1.405	1.402	1.4910	1.4910	6	6
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)	(.10)	(.10)				
2	ICAL	6/16/11	↓ (1st internal standard)	1.3847	1.3847	1.3554	1.3554	J	J
			(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 #: 26407R1b

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	7/15/11	1,4-Dioxane (1st internal standard)	1.4910	1.4853	1.4853	0	0
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
2	ccv	7/14/11	↓ (1st internal standard)	1.3554	1.5126	1.5126	12	12
			(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 #: 26407R1D

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: C

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	9.858	99	99	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 #: [illegible]

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: LCSP 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										
Trichloroethene										
Benzene										
Toluene										
Chlorobenzene										
1,4- Dioxane	125	125	115.22	129.68	92	92	104	104	12	12

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 #: 26407R1b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
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. = $\frac{(\quad)(\quad)(\quad)}{(\quad)(\quad)(\quad)(\quad)}$

= 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: July 13, 2011

LDC Report Date: October 26, 2011

Matrix: Soil/Water

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 22 soil samples and one water 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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
7/29/11	Benzidine	30	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5MS SL-280-SA6-SS-0.0-0.5MSD SBLKH201	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.

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 with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWL197	7/17/11	Benzoic acid	83 ug/L	All water samples in SDG DE199

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.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No semivolatile contaminants were found.

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	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-083-SA6-SB-9.0-10.0	Phenol-d6 2-Fluorophenol 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	188 (25-120) 186 (25-130) 144 (35-130) 181 (40-130) 187 (45-130) 156 (45-135)	All TCL compounds	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
SL-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	Hexachloroethane 4,6-Dinitro-2-methylphenol Benzidine	55 (57-109) 10 (24-116) 34 (35-141)	- 12 (24-116) 32 (35-141)	- - -	J (all detects) UJ (all non-detects)	A
SL-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	2,4-Dinitrophenol	0 (20-143)	0 (20-143)	-	J (all detects) R (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
197WLCS/D (All water samples in SDG DE199)	2,4,5-Trichlorophenol	-	109 (79-107)	-	J (all detects)	P
201LHLCS (All soil samples in SDG DE199)	Benzoic acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	38 (62-113) 16 (37-120) 30 (53-110)	NA	NA	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 with the following exceptions:

Sample	Internal Standards	Area (Limits)	Compound	Flag	A or P
SL-083-SA6-SB-9.0-10.0	Anthracene-d10 Phenanthrene-d10 Pyrene-d10 Perylene-d12	148716 (163084-652334) 203422 (266525-1066100) 194032 (302373-1209492) 130139 (205445-821780)	Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate 2,6-Dinitrotoluene 3-Nitroaniline 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether 4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenylphenyl ether Hexachlorobenzene Pentachlorophenol Di-n-butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene Benzidine Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Carbazole	J (all detects) UJ (all non-detects)	A

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5	Benzidine	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE199	SL-083-SA6-SB-9.0-10.0	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE199	SL-280-SA6-SS-0.0-0.5	Hexachloroethane 4,6-Dinitro-2-methylphenol Benzidine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE199	SL-280-SA6-SS-0.0-0.5	2,4-Dinitrophenol	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE199	EB-SA6-SB-071311	2,4,5-Trichlorophenol	J (all detects)	P	Laboratory control samples (%R) (L)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Benzoic acid 2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-083-SA6-SB-9.0-10.0	Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate 2,6-Dinitrotoluene 3-Nitroaniline 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether 4-Nitroaniline 4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenylphenyl ether Hexachlorobenzene Pentachlorophenol Di-n-butylphthalate Fluoranthene Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene Benzidine Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Benzo(g,h,i)perylene Carbazole	J (all detects) UJ (all non-detects)	A	Internal standards (area) (I)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R2a **VALIDATION COMPLETENESS WORKSHEET** Date: 10/26/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer:
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: 7/13/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A ~~SW~~	% RSD ≤ 30, r^2
IV.	Continuing calibration/ICV	SW	ICV/CCV
V.	Blanks	SW	
VI.	Surrogate spikes	SW	
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	SW	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	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 = 20

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 + Waters

1	SL-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	SBLKLH201
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	#/MS	32	SBLKWL197
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	#/MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25		35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26		36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27		37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30		40	

LDC #: 26407R29

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 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?	✓			
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 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 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 #: 26407R2a

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?		✓		
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 from the associated calibration standard?	✓			
X. 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?	✓			
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. Reconstructed Ion Chromatography				
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				
System performance was found to be acceptable.	✓			
X. Overall Assessment				
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.		✓		

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 #: 26407R2c

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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 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
	7/29/11 18:29	CCV	SJS	30		SBLKLH201, 1, 2, 22, 23, 3 → 11	J/UJ/A (c)

LDC #: 26407R29

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer: A

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 analyzed for each concentration preparation level?
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: 7/12/11 **Blank analysis date:** 8/01/11
Conc. units: ug/L Associated Samples: All water (ND)

Compound	Blank ID	Sample Identification								
	SBLKW4197									
PPP	83									

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

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 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 #: 26407R29

VALIDATION FINDINGS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were percent recoveries (%R) for surrogates within QC limits?
Y N N/A If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?
Y N N/A If any %R was less than 10 percent, was a reanalysis performed to confirm %R?

#	Date	Sample ID	Surrogate	%R (Limits)	Qualifications
		18	TBP	22 (35-130)	no qual
				( )	
				( )	
				( )	
				( )	
				( )	
		19	PHL-d6	188 (25-120)	J/A det All TCL (5)
			2FP	186 (25-130)	
			TBP	144 (35-130)	
			NBZ	181 (40-130)	
			FBP	187 (45-130)	
			TPH	156 (45-135)	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

* QC limits are advisory	QC Limits (Soil)	QC Limits (Water)		QC Limits (Soil)	QC Limits (Water)
S1 (NBZ) = Nitrobenzene-d5	23-120	35-114	S5 (2FP)= 2-Fluorophenol	25-121	21-100
S2 (FBP) = 2-Fluorobiphenyl	30-115	43-116	S6 (TBP) = 2,4,6-Tribromophenol	19-122	10-123
S3 (TPH) = Terphenyl-d14	18-137	33-141	S7 (2CP) = 2-Chlorophenol-d4	20-130*	33-110*
S4 (PHL) = Phenol-d5	24-113	10-94	S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130*	16-110*

LDC #: 26407R2s

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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
		22 & 23	K	55 (57-109)	( )	( )	# 1	J/UJ/A (Q)
		Tetralin		0 (70-130)	0 (70-130)	( )		J/R/A
			HH	0 (20-143)	0 (20-143)	( )		↓
			PP	10 (24-116)	12 (24-116)	( )		J/UJ/A
			SSS	34 (35-141)	32 (35-141)	( )		J/UJ/A
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )	

LDC #: 26407R09

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
		97WLLCS/D	Tetralin	0 (70-130)	0 (70-130)	( )	All water	J/R/P (L)
			Z	( )	109 (79-107)	( )	↓	J/Pdet ↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
		201LHLCS	PPP	38 (62-113	( )	( )	All soils	J/UJ/P (L)
			HH	16 (37-120)	( )	( )	↓	↓
			PP	30 (53-110	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 2640 / RDG
SDG #: fc cover

VALIDATION FINDINGS WORKSHEET
Internal Standards

Page: 1 of 1
Reviewer: [illegible]
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 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
		19	ANT	148716 (163084-652334)		J/UJ/A (I)
			PHN	203422 (266528-1066100)		
			Pyrene-d10	194032 (302373-1209492)		↓
			PRY	130139 (205445-821780)		
					- - -	-
					all	list pp. page

* 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

Semi-Volatile Internal Standards

for #19

1,4-Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10
Phenol Bis(2-chloroethyl) ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methylphenol 2,2'-Oxybis(1-chloropropane) 4-Methylphenol N-Nitroso-di-n-propylamine Hexachloroethane	Nitrobenzene Isophorone 2-Nitrophenol 2,4-Dimethylphenol Bis-(2-chloroethoxy) methane 2,4-Dichlorophenol 1,2,4-Trichlorobenzene Naphthalene 4-Chloroaniline Hexachlorobutadiene 4-Chloro-3-methylphenol 2-Methylnaphthalene	Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene 2-Nitroaniline Dimethylphthalate ~~Acenaphthylene~~ 2,6-Dinitrotoluene 3-Nitroaniline ~~Acenaphthene~~ 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene Diethylphthalate 4-Chlorophenylphenyl ether ~~Fluorene~~ 4-Nitroaniline
Phenanthrene-d10	**Pyrene-d10** ~~**Chrysene-d12**~~	**Perylene-d12**
4,6-Dinitro-2-methylphenol N-Nitrosodiphenylamine 4-Bromophenyl-phenylether Hexachlorobenzene Pentachlorophenol ~~Phenanthrene~~ ~~Anthracene~~ Carbazole Di-n-butylphthalate Fluoranthene	Pyrene Butylbenzylphthalate 3,3-Dichlorobenzidine Benzo(a)anthracene Chrysene ~~Bis(2-ethylhexyl)phthalate~~ Benzidine	~~Di-n-octylphthalate~~ Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene ~~Dibenz(a,h)anthracene~~ Benzo(g,h,i)perylene

Semi-Volatile Surrogates

Acid	Base
Phenol-d5 2-Fluorophenol 2,4,6-Tribromophenol 2-Chlorophenol-d4	Nitrobenzene-d5 2-Fluorobiphenyl ~~Terphenyl-d14~~ 1,2-Dichlorobenzene-d4

LDC #: 24072Q9

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
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, 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 (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/26/11	Phenol (1st internal standard)	2.679	2.679	2.583	2.583	4	4
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.445	0.445	0.445	0.445	2	2
			~~Fluorene~~ 2-Nitroaniline (3rd internal standard)	0.447	0.447	0.418	0.418	12	12
			~~Pentachlorophenol~~ Hexachlorobenzene (4th internal standard)	0.157	0.157	0.164	0.164	6	6
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.781	0.781	0.758	0.78	5	5
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.869	1.869	1.769	1.769	13	13
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 #: 26407R29

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	7/29/11	Phenol (1st internal standard)	2.583	2.626	2.626	2	2
	18:29		~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.445	0.449	0.449	1	1
			~~Fluorene~~ 2-Nitroaniline (3rd internal standard)	0.418	0.450	0.450	8	8
			~~Pentachlorophenol~~ Hexachlorobenzene (4th internal standard)	0.164	0.155	0.155	5	5
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.758	0.815	0.815	7	7
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.769	1.965	1.965	11	11
2	CCV	8/01/11	~~Phenol (1st internal standard)~~		2.471	2.471	4	4
	8:23		Naphthalene (2nd internal standard)		0.449	0.449	1	1
			Fluorene (3rd internal standard)		0.441	0.441	5	5
			Pentachlorophenol (4th internal standard)		0.151	0.151	8	8
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.786	0.786	4	4
			~~Benzo(a)pyrene (6th internal standard)~~		2.015	2.015	14	14
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 #: 46401K07

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: A

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: H1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Nitrobenzene-d5	100	85.421	85	85	0
2-Fluorobiphenyl	↓	93.053	93	93	
Terphenyl-d14	↓	82.149	82	82	
Phenol-d5	200	177.579	89	89	
2-Fluorophenol	↓	174.393	87	87	
2,4,6-Tribromophenol	↓	162.764	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 #: 26407A2-9

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
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 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: 22+23

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	1383.04	1391.12	83	83	83	83	1	1
N-Nitroso-di-n-propylamine			ND	1446.49	1445.88	87	87	87	87	0	0
4-Chloro-3-methylphenol				1529.51	1571.2	92	92	94	94	3	3
Acenaphthene				1602.13	1559.94	96	96	94	94	3	3
Pentachlorophenol				1067.42	1130.65	64	64	68	68	6	6
Pyrene				1551.71	1554.14	93	93	93	93	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 #: 26407J2S

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: 201 LHLCS

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	1492.37	NA	90	90				
N-Nitroso-di-n-propylamine			1453.99		87	87				
4-Chloro-3-methylphenol			1588.69		95	95				
Acenaphthene			1574.82		94	94				
Pentachlorophenol			1438.09		86	86				
Pyrene			1548.73		93	93	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 #: 26407R25

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. #2 , Phenanthrene

Conc. = $\frac{(12742)(20)(1000)(\quad)(\quad)}{(35443)(1.244)(30)(0.98)(\quad)}$

=

20 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: July 13, 2011

LDC Report Date: October 26, 2011

Matrix: Soil/Water

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 22 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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
7/11/11	Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	26 27 26 26 26	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-046-SA6-SS-0.0-0.5 SBLKLL201	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 with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKWH197	7/17/11	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	0.22 ug/L 0.21 ug/L	All water samples in SDG DE199
SBLKLL201	7/21/11	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	7.9 ug/Kg 6.5 ug/Kg	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-118-SA6-SB-4.0-5.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5

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
EB-SA6-SB-071311	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	0.28 ug/L 0.21 ug/L	1.0U ug/L 1.0U ug/L
SL-280-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	36 ug/Kg 38 ug/Kg	94U ug/Kg 94U ug/Kg
SL-281-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	36 ug/Kg 63 ug/Kg	92U ug/Kg 92U ug/Kg
SL-300-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	35 ug/Kg 36 ug/Kg	93U ug/Kg 93U ug/Kg
SL-030-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	47 ug/Kg 63 ug/Kg	93U ug/Kg 93U ug/Kg
SL-035-SA6-SS-0.0-0.5 (5X)	Bis(2-ethylhexyl)phthalate	48 ug/Kg	91U ug/Kg
SL-040-SA6-SS-0.0-0.5	Di-n-butylphthalate	8.8 ug/Kg	19U ug/Kg
SL-047-SA6-SS-0.0-0.5	Di-n-butylphthalate	8.9 ug/Kg	18U ug/Kg
SL-059-SA6-SS-0.0-0.5	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	10 ug/Kg 24 ug/Kg	18U ug/Kg 18U ug/Kg
SL-066-SA6-SS-0.0-0.5	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	8.4 ug/Kg 9.7 ug/Kg	18U ug/Kg 18U ug/Kg
SL-067-SA6-SS-0.0-0.5 (5X)	Bis(2-ethylhexyl)phthalate	89 ug/Kg	91U ug/Kg
SL-278-SA6-SS-0.0-0.5 (5X)	Bis(2-ethylhexyl)phthalate	180 ug/Kg	460U ug/Kg
SL-279-SA6-SS-0.0-0.5	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	9.1 ug/Kg 19 ug/Kg	19U ug/Kg 19U ug/Kg
SL-118-SA6-SB-4.0-5.0	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	10 ug/Kg 8.5 ug/Kg	20U ug/Kg 20U ug/Kg
SL-083-SA6-SB-4.0-5.0 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	36 ug/Kg 80 ug/Kg	96U ug/Kg 96U ug/Kg
SL-083-SA6-SB-9.0-10.0 (5X)	Bis(2-ethylhexyl)phthalate	48 ug/Kg	98U ug/Kg
SL-046-SA6-SS-0.0-0.5	Di-n-butylphthalate	9.9 ug/Kg	18U ug/Kg

Sample EB-SA6-SB-071311 was identified as an equipment blank. No semivolatile contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SB-071311	7/13/11	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate Naphthalene	0.28 ug/L 0.21 ug/L 0.068 ug/L	All soil samples in SDG DE199

Sample concentrations were compared to concentrations detected in the field 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 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.

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
197WHLCS/LCSD (All water samples in SDG DE199)	Dimethylphthalate	-	-	45 (≤30)	J (all detects) UJ (all non-detects)	P
197WHLCS/LCSD (All water samples in SDG DE199)	Acenaphthylene Fluorene	- -	112 (70-110) 115 (75-114)	- -	J (all detects) 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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-046-SA6-SS-0.0-0.5	Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene Benzo(g,h,i)perylene	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE199	EB-SA6-SB-071311	Dimethylphthalate	J (all detects) UJ (all non-detects)	P	Laboratory control samples (RPD) (E)
DE199	EB-SA6-SB-071311	Acenaphthylene Fluorene	J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE199

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE199	EB-SA6-SB-071311	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	1.0U ug/L 1.0U ug/L	A	B

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE199	SL-280-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	94U ug/Kg 94U ug/Kg	A	B
DE199	SL-281-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	92U ug/Kg 92U ug/Kg	A	B
DE199	SL-300-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	93U ug/Kg 93U ug/Kg	A	B
DE199	SL-030-SA6-SS-0.0-0.5 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	93U ug/Kg 93U ug/Kg	A	B
DE199	SL-035-SA6-SS-0.0-0.5 (5X)	Bis(2-ethylhexyl)phthalate	91U ug/Kg	A	B
DE199	SL-040-SA6-SS-0.0-0.5	Di-n-butylphthalate	19U ug/Kg	A	B
DE199	SL-047-SA6-SS-0.0-0.5	Di-n-butylphthalate	18U ug/Kg	A	B
DE199	SL-059-SA6-SS-0.0-0.5	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	18U ug/Kg 18U ug/Kg	A	B
DE199	SL-066-SA6-SS-0.0-0.5	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	18U ug/Kg 18U ug/Kg	A	B
DE199	SL-067-SA6-SS-0.0-0.5 (5X)	Bis(2-ethylhexyl)phthalate	91U ug/Kg	A	B
DE199	SL-278-SA6-SS-0.0-0.5 (5X)	Bis(2-ethylhexyl)phthalate	460U ug/Kg	A	B
DE199	SL-279-SA6-SS-0.0-0.5	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	19U ug/Kg 19U ug/Kg	A	B
DE199	SL-118-SA6-SB-4.0-5.0	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	20U ug/Kg 20U ug/Kg	A	B
DE199	SL-083-SA6-SB-4.0-5.0 (5X)	Di-n-butylphthalate Bis(2-ethylhexyl)phthalate	96U ug/Kg 96U ug/Kg	A	B
DE199	SL-083-SA6-SB-9.0-10.0 (5X)	Bis(2-ethylhexyl)phthalate	98U ug/Kg	A	B
DE199	SL-046-SA6-SS-0.0-0.5	Di-n-butylphthalate	18U ug/Kg	A	B

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R2b **VALIDATION COMPLETENESS WORKSHEET** Date: 10/25/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
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: 7/13/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 30 r 2
IV.	Continuing calibration/ICV	SW	1 CV/CCV ±25
V.	Blanks	SW	
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.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	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	EB = 20

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-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	SBLKLL201
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	#1 MS	32	SBLKWH197
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	#1 MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25		35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26		36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27		37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30		40	

LDC #: 26407R26

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 tuning and performance				
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. 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 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 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. LCS				
Was an LCS analyzed for this SDG?	✓			

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?		✓		
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 from the associated calibration standard?	✓			
X. Target compounds 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?	✓			
XI. 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?	✓			
XII. Tentatively identified compounds				
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)?			✓	
XIII. System performance				
System performance was found to be acceptable.	✓			
XIV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XV. Field duplicates				
Field duplicate pairs were identified in this SDG.		✓		
Target compounds were detected in the field duplicates.			✓	
XVI. Field blanks				
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 #: 26407R2b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
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 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
	7/11/11	1CV	HHH	26		SBLKLL201, 1→7*, 10→17, 21	J/UJ/A (C)
			III	27			
			JJJ	26			
			KKK	26			
			LLL	26			

CONCAL.2S

LDC #: 26407R2h

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

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 analyzed for each concentration preparation level?
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: 7/17/11 **Blank analysis date:** 7/18/11
Conc. units: ug/L Associated Samples: All water

Compound	Blank ID	Sample Identification								
	SBLKW#197			20						
XX	0.22			0.28/1.0U						
EEE	0.21			0.21/1.0U						

Blank extraction date: 7/21/11 **Blank analysis date:** 7/22/11
Conc. units: ug/Kg Associated Samples: ATTACHED 1-12, 16, 18, 19, 21

Compound	Blank ID	Sample Identification								
	SBLKLL	20	1(5X)	2(5X)	3(5X)	4(5X)	5(5X)	6	7	8
XX	7.9		36/94U	36/92U	35/93U	47/93U	NR	8.5/19U	8.9/18U	10/18U
EEE	6.5		38/94U	63/92U	36/93U	63/93U	48/91U	NR	NR	24/18/U
			9	10(5X)	11(5X)	12	16	18(5X)	19(5X)	21
↓	↓		8.4/18U	NR	NR	9.1/19U	10/20U	36/96U	NR	9.9/18U
			9.7/18U	89/91U	180/46U	19/U	8.5/20U	80/96U	48/98U	NR

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 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 #: 26407R2b

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer:

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: 7/13/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: All soils (ND + 10X)

Compound	Blank ID	Sample Identification								
	20	5X/10X								
XX	0.28	2.8								
EEE	0.21	2.1								
S	0.068	0.34								
CRQL										

Blank units: _____ **Associated sample units:** _____
Sampling date: _____
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								
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 #: 26407R2b

VALIDATION FINDINGS WORKSHEET
Surrogate Recovery

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualification below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were percent recoveries (%R) for surrogates within QC limits?
Y N N/A If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?
Y N N/A If any %R was less than 10 percent, was a reanalysis performed to confirm %R?

#	Date	Sample ID	Surrogate	%R (Limits)	Qualifications
		20	NBZ	134 (40-134)	no qual
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
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				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

* QC limits are advisory	QC Limits (Soil)	QC Limits (Water)		QC Limits (Soil)	QC Limits (Water)
S1 (NBZ) = Nitrobenzene-d5	23-120	35-114	S5 (2FP)= 2-Fluorophenol	25-121	21-100
S2 (FBP) = 2-Fluorobiphenyl	30-115	43-116	S6 (TBP) = 2,4,6-Tribromophenol	19-122	10-123
S3 (TPH) = Terphenyl-d14	18-137	33-141	S7 (2CP) = 2-Chlorophenol-d4	20-130*	33-110*
S4 (PHL) = Phenol-d5	24-113	10-94	S8 (DCB) = 1,2-Dichlorobenzene-d4	20-130*	16-110*

LDC #: 26407R2b

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

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 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
		197WHLCS/D	DD	( )	112 (70-110)	( )	All water	J/Pdet (L)
			CC	( )	( )	45 (30)	↓	J/UJ/P (E)
			NN	( )	115 (75-114)	( )	↓	J/Pdet (L)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC #: 26407R2b

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 (/ std)	Recalculated RRF (/ std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/11/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	1.045	1.045	1.074	1.074	4	4
			Fluorene (3rd internal standard)	1.232	1.232	1.235	1.235	8	8
			~~Pentachlorophenol (4th internal standard)~~ Anthracene	1.117	1.117	1.106	1.106	12	12
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.322	1.322	1.357	1.357	3	3
			~~Benzo(a)pyrene~~ (6th internal standard)	1.218	1.218	1.225	1.225	11	11
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 #: 26407R2b

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	7/18/11	~~Phenol (1st internal standard)~~					
	0543		Naphthalene (2nd internal standard)	1.074	1.053	1.053	2	2
			Fluorene (3rd internal standard)	1.235	1.327	1.327	7	7
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.106	1.206	1.206	9	9
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.357	1.302	1.302	4	4
			Benzo(a)pyrene (6th internal standard)	1.225	1.286	1.286	5	5
2	CCV	7/22/11	~~Phenol (1st internal standard)~~					
	0638		Naphthalene (2nd internal standard)		1.044	1.044	3	3
			Fluorene (3rd internal standard)		1.300	1.300	5	5
			~~Pentachlorophenol~~ Anthracene (4th internal standard)		1.176	1.176	6	6
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)		1.321	1.321	3	3
			Benzo(a)pyrene (6th internal standard)		1.268	1.268	4	4
3	CCV	7/22/11	~~Phenol (1st internal standard)~~					
	17:14		Naphthalene (2nd internal standard)		1.021	1.021	5	5
			Fluorene (3rd internal standard)		1.218	1.218	1	1
			~~Pentachlorophenol~~ Anthracene (4th internal standard)		1.128	1.128	2	2
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)		1.277	1.277	6	6
			Benzo(a)pyrene (6th internal standard)		1.215	1.215	1	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 #: 26407R2b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: FD
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	ccv 0034	7/25/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.074	1.045	1.045	3	3
			Fluorene (3rd internal standard)	1.235	1.320	1.320	7	7
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.106	1.196	1.196	8	8
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.357	1.350	1.350	1	1
			Benzo(a)pyrene (6th internal standard)	1.223	1.302	1.302	6	6
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 #:_____

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

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	0.2	0.217	108	108	0
2-Fluorobiphenyl	↓	0.183	91	91	↓
Terphenyl-d14	↓	0.167	84	84	↓
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 #: 26467R2D

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
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 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: 22 + 23

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	30.97	30.78	93	93	92	92	1	1
Pentachlorophenol											
Pyrene	↓	↓	ND	34.53	33.76	104	104	101	101	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 #: 16401R01

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 801L

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	34.03	NA	102	102				
Pentachlorophenol										
Pyrene	33.33	↓	33.57	↓	101	101	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 #: 26407R2b

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_t	=	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, Benzo (g,h,i) perylene

Conc. = $\frac{(9794)(1.0)(1000)(5)(\ )}{(27'3287)(1.146)(30)(0.96)(\ )}$

=

5.43 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: July 13, 2011

LDC Report Date: October 25, 2011

Matrix: Soil/Water

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5

Introduction

This data review covers 10 soil samples and one water sample 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 differences (%D) of the second source calibration standard were less than or equal to 30.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No N-nitrosodimethylamine was found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SB-071311	7/13/11	N-Nitrosodimethylamine	5 ng/L	All soil samples in SDG DE199

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

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R2c **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: A
2nd Reviewer: A

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: 7/13/11
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	N	client specified
VIII.	Laboratory control samples	A	LCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	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 = 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-280-SA6-SS-0.0-0.5 S	11	SL-046-SA6-SS-0.0-0.5 S	21	SBLKLB201	31	
2	SL-281-SA6-SS-0.0-0.5	12		22	SBLKWH195	32	
3	SL-300-SA6-SS-0.0-0.5	13		23		33	
4	SL-030-SA6-SS-0.0-0.5	14		24		34	
5	SL-035-SA6-SS-0.0-0.5	15		25		35	
6	SL-047-SA6-SS-0.0-0.5	16		26		36	
7	SL-066-SA6-SS-0.0-0.5	17		27		37	
8	SL-067-SA6-SS-0.0-0.5	18		28		38	
9	SL-278-SA6-SS-0.0-0.5	19		29		39	
10	EB-SA6-SB-071311 W	20		30		40	

LDC #: 26407R2C

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

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 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?	✓			
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 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?	✓			

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?	✓			
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 from 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				
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 of data				
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.	✓			

LDC #: 26407R2C

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer: [illegible]

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: ng/L **Associated sample units:** ng/Kg
Sampling date: 7/13/11
Field blank type: (circle one) Field Blank / Rinsate / Other:_____ Associated Samples: All soils (ND)

Compound	Blank ID	Sample Identification								
	10									
N-Nitrosodimethylamine	5									
CRQL										

Blank units:_____ **Associated sample units:**_____
Sampling date:_____
Field blank type: (circle one) Field Blank / Rinsate / Other:_____ Associated Samples:_____

Compound	Blank ID	Sample Identification								
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 #: 26407R2C

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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 (10 std)	Recalculated RRF (10 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	6/29/11	~~Phenol (1st internal standard)~~ NDMA	1.142	1.142	1.176	1.176	10	10
			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 #: 26407R2C

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 9:29	7/20/11	~~Phenol~~ (1st internal standard) NDMA	1.176	1.21906	1.21906	3.66	3.66
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
	CCV 09:51	7/21/11	Pentachlorophenol (4th internal standard) ↓	1.176	1.22373	1.22373	4.0576	4.0576
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			~~Benzo(a)pyrene (6th internal standard)~~					
2	CCV 14:26	7/21/11	~~Phenol (1st internal standard)~~ ↓	1.176	1.21696	1.21696	3.48142	3.48142
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
	CCV 18:00	7/21/11	Pentachlorophenol (4th internal standard) ↓	1.176	1.22237	~~3.944~~ 1.22237	3.941	3.941
			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 #: [illegible]

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: [illegible]

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	25.15	17.105	68	68	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 #: 26407R2C

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: 20/LBLCS

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~~ NDMA	833.33	NA	815.44	NA	98	98	NA			
~~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 #: 26407R2C

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 = $\frac{(A_x)(I_s)(V_i)(DF)(2.0)}{(A_{is})(RRF)(V_o)(V_t)(\%S)}$

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. #10 , NDMA

Conc. = $\frac{(2268)(25)(1000)(\quad)(\quad)}{(9933)(1.176)(94)(\quad)(\quad)}$

= 5 ng/L

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 13, 2011

LDC Report Date: October 25, 2011

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 15 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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
8/16/11	IP10228-ICV	RTX-CLPI	Endrin aldehyde	21.0	SL-030-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects)	A
8/16/11	IP10228-ICV	RTX-CLPII	Endrin aldehyde	24.1	SL-030-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects)	A

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% .

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
SL-035-SA6-SS-0.0-0.5	Not specified	Decachlorobiphenyl	1085 (20-180)	All TCL compounds except 4,4'-DDT Chlordane (Technical)	J (all detects)	A
SL-066-SA6-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene	41 (50-130)	All TCL compounds	J (all detects) UJ (all non-detects)	P
SL-278-SA6-SS-0.0-0.5	Not specified	Decachlorobiphenyl	596 (20-120)	All TCL compounds except 4,4'-DDT alpha-BHC	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 not within the QC limits. Since the samples were diluted out, no data were qualified.

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. 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 RLs

All compound quantitation and RLs 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
SL-030-SA6-SS-0.0-0.5	gamma-BHC	44.99	J (all detects)	A
SL-066-SA6-SS-0.0-0.5	delta-BHC Mirex	68.70 46.92	J (all detects) J (all detects)	A
SL-067-SA6-SS-0.0-0.5	gamma-BHC delta-BHC	57.13 62.19	J (all detects) J (all detects)	A
SL-278-SA6-SS-0.0-0.5	Aldrin	45.88	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-030-SA6-SS-0.0-0.5	Endrin aldehyde	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE199	SL-035-SA6-SS-0.0-0.5	All TCL compounds except 4,4'-DDT Chlordane (Technical)	J (all detects)	A	Surrogate spikes (%R) (S)
DE199	SL-066-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (S)
DE199	SL-278-SA6-SS-0.0-0.5	All TCL compounds except 4,4'-DDT alpha-BHC	J (all detects)	A	Surrogate spikes (%R) (S)
DE199	SL-030-SA6-SS-0.0-0.5	gamma-BHC	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE199	SL-066-SA6-SS-0.0-0.5	delta-BHC Mirex	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE199	SL-067-SA6-SS-0.0-0.5	gamma-BHC delta-BHC	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE199	SL-278-SA6-SS-0.0-0.5	Aldrin	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R3a
SDG #: DE199
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 10/25/11
Page: 1 of 1
Reviewer: EJ
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: 7/13/11
II.	GC/ECD Instrument Performance Check	A	
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	SW	
VIII.	Laboratory control samples	A	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/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
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:
SOIL

1	SL-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	PBLK08201	31	
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22		32	
3	SL-300-SA6-SS-0.0-0.5	13	SL-046-SA6-SS-0.0-0.5	23		33	
4	SL-030-SA6-SS-0.0-0.5	14	#1 MS	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	#1 MSD	25		35	
6	SL-040-SA6-SS-0.0-0.5	16		26		36	
7	SL-047-SA6-SS-0.0-0.5	17		27		37	
8	SL-059-SA6-SS-0.0-0.5	18		28		38	
9	SL-066-SA6-SS-0.0-0.5	19		29		39	
10	SL-067-SA6-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26401K3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FZ
2nd Reviewer: [illegible]

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?	✓			
Were all percent differences (%D) ~~≤ 15%.0~~ 80-120 or percent recoveries ~~85-115%~~ 80?		✓		
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 #: 26407R3a
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 #: 26407R3a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: T

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 ≤20.0%?
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 ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	8/16/11	IP10228-ICV	RTX-CLP I	R	2.0	( )	4	J/UJ/A (c)
			RTX-CLP II	R	24.1	( )	↓	↓
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
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LDC #: 26407R39

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?

(S)

#	Sample ID	Detector/ Column	Surrogate Compound	%R (Limits)	Qualifications
	2, 6	surrogate	outside limit	( )	no qual >5X PL
				( )	
				( )	
	5	~~&~~ NS	~~1085~~ θ	1085 (20-180)	J/A det all except θ + Chlordane (Technical)
				( )	
				( )	
	9	NS	Y	41 (50-130)	J/UJ/P all
				( )	
				( )	
	11	NS	θ	596 (20-120)	J/A det all except θ + A
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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 #: 26467R3a

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 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
	14 + 15	several	compounds	are outside	( )	1	no qual SXPL
			QC limits	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407R3q

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

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".

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 col Finding ≤40	Associated Samples	Qualifications
	D	44.99	4	J/A det * XIII
	C	68.70	9	↓ * XIII
	Mirex	46.92		
	D	57.13	10	↓ * XIII
	C	62.19		
	F	45.88	11	↓ * XIII

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407R35
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: JMG
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 followin 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	IP10224	8/12/11	endosulfan I RTX-cLP	9.38×10^2	9.38×10^2	9.98×10^2	9.98×10^2	13.5	13.5
			methoxychlor ↓	3.85×10^2	3.85×10^2	3.75×10^2	3.75×10^2	5.8	5.8
			RTX cLP II	2.87×10^3	2.87×10^3	2.89×10^3	2.89×10^3	2.5	2.5
2	IP10228	8/16/11	↓	7.17×10^2	7.17×10^2	6.95×10^2	6.95×10^2	5.5	5.5
			↓	1.07×10^3	1.07×10^3	1.08×10^3	1.08×10^3	4.3	4.3
			↓	2.71×10^2	2.71×10^2	2.69×10^2	2.69×10^2	6.1	6.1
3	IP10234	8/22/11	↓	2.94×10^3	2.94×10^3	3.21×10^3	3.21×10^3	10.4	10.4
			↓	7.17×10^2	7.17×10^2	7.27×10^2	7.27×10^2	7.0	7.0
			↓	2.0×10^3	2.0×10^3	2.09×10^3	2.09×10^3	5.1	5.1
4			↓	8.16×10^2	8.16×10^2	8.35×10^2	8.35×10^2	6.4	6.4
			↓	2.34×10^3	2.34×10^3	2.46×10^3	2.46×10^3	8.5	8.5
			↓	7.20×10^2	7.20×10^2	7.66×10^2	7.66×10^2	14.7	14.7

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 recalculate results:

LDC #: 26407R35
SDG #: per cover

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	ccv. 5R	8/12/11	endosulfan I RTX cuP1	10.00	8.76	8.76	12.4	12.4
	1919		methoxychlor	100.0	95.23	95.23	4.8	4.8
			RTX cuP2	10.0	9.15	9.15	8.5	8.5
2			↓	100.0	92.40	92.40	7.6	7.6
3			Samples on 8/17/11	were	analyzed	after	1 CAL	
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 th recalculated results.

SDG #: per cover

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: #1

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene	RTXCLPII	1.04	1.113175	107	107	0
Decachlorobiphenyl	RTXCLP1	1.04	0.61064	59	59	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 #: 26407R3g
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

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 us the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = I MS - MSD I * 2/(MS + MSD)

MS = Matrix spike percent recovery
MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 14 & 15

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	Recalculate
gamma-BHC	0.34	0.34	ND	0.27	0.51	79	79	150	150	62	62
4,4'-DDT	0.71	0.71	18.98	9.25	9.8	-1369	-1369	-1092	-1092	6	6

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.(of the recalculated results.

LDC #: 26407R35
SDG #: all cond

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 th 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: LCS 0820 /

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	0.34	NA	0.27	NA	79	79				
4,4'-DDT	0.71	↓	0.67	↓	94	94	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 #: 26407R3s
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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-DDT

Conc. = $\frac{(27175)(10)(8)}{(1.91 \times 10^3)(60)(0.959)}$

=

20 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: July 13, 2011

LDC Report Date: October 25, 2011

Matrix: Soil/Water

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5MS
SL-281-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 22 soil samples 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
7/23/11	CCV (03:58)	ZBMultiR2	Aroclor-1260	22.5	SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260	J (all detects) UJ (all non-detects)	A
7/23/11	CCV (04:16)	ZBMultiR1	Aroclor-5460	26.6	SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Aroclor-5460	J (all detects) UJ (all non-detects)	A

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
7/23/11	CCV (04:16)	ZBMultiR2	Aroclor-5460	32.0	SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Aroclor-5460	J (all detects) UJ (all non-detects)	A

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 EB-SA6-SB-071311 was identified as an equipment blank. No polychlorinated biphenyl contaminants were found.

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-278-SA6-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene Decachlorobiphenyl	16 (53-139) 0 (45-120)	All TCL compounds	J (all detects) R (all non-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 not within the QC limits. Since the samples were diluted out, no data were qualified.

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 RLs

All compound quantitation and RLs 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
SL-035-SA6-SS-0.0-0.5	Aroclor-1254	49.19	J (all detects)	A
SL-047-SA6-SS-0.0-0.5	Aroclor-1254	56.22	J (all detects)	A
SL-067-SA6-SS-0.0-0.5	Aroclor-5460 Aroclor-1254	154.22 56.93	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 DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Aroclor-1242 Aroclor-1248 Aroclor-1254 Aroclor-1260 Aroclor-5460	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE199	SL-278-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) R (all non-detects)	A	Surrogate spikes (%R) (S)
DE199	SL-035-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5	Aroclor-1254	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE199	SL-067-SA6-SS-0.0-0.5	Aroclor-5460 Aroclor-1254	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R3b
SDG #: DE199
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 10/25/11
Page: 1 of 1
Reviewer: F
2nd Reviewer: C

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: 7/13/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% RSD ≤ 20
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	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/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
XVI.	Field blanks	ND	EB = 20

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-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	PBLK122202
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	# 2 MS	32	PBLK18200
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	# 2 MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25		35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26		36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27		37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30		40	

Notes:

LDC #: 26407136
SDG #: all waters

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%?	✓ ~~NA~~			
Was a curve fit used for evaluation?	~~NA~~	✓		
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	~~NA~~		✓	
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 #: 26407B36
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.		✓		

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 #: 26407R3b

VALIDATION FINDINGS WORKSHEET
Continuing 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".
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 ≤20.0%?
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 ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	7/23/11 3:58	CCV	ZBmultiR2	BB	22.5	( )	12 → 19, 21	J/UJ/A (C) (gel Y, Z, AA, BB)
						( )		
						( )		
	7/23/11 4:16	CCV	ZBmultiR1	Aroclor 5460	26.6	( )	↓	J/UJ/A (C) ↓
			ZBmultiR2	↓	32.0	( )		
						( )		
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LDC #: 26407R3h

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
	3	NS	Y	27 (53-139)	no qual 10X DL
			θ	31 (45-120)	
				( )	
	11	↓	↓	16 (↓)	J/R/Δ (s)
				0 (↓)	↓
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	

	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 #: 26407R3b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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 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
	22+23	V	372 (29-146)	273 (29-146)	31 (50)	2	no qual 10X PL
		BB	563 (39-149)	998 (39-149)	56 (↓)	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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LDC #: 26407R35

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: ~~GC~~ 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
	AA	49.19	5	J/A det * XIII
	AA	56.22	7	↓
	Aroclor 5460	154.22	10	
	AA	56.93	↓	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407R3b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FJ
2nd Reviewer: A

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 ul std)	Recalculated CF (20 ul std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	IP20174	6/23/11	Aroclor 1260-1 ZB R1	48	48	48	48	4.3	4.3
			ZB R2	248	248	244	244	2.6	2.6
2	IP20214	8/2/11	↓	51	51	55	55	55	6.8
				264	264	280	280	280	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 #: 26407R3b
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: C

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	28R	7/20/11	1260 ZB R1	200.0	201.98	201.98	1.0	1.0
	21:56		R2	200.0	199.77	199.77	0.1	0.1
2	28R	7/22/11	1260 ZB R1	200	188.70	188.70	5.6	5.6
	20:51		R2	200	187.85	187.85	6.1	6.1
3	51R	7/23/11	1260 ZB R1	200	163.50	163.50	18.2	18.2
	3:58		R2	200	155.07	155.07	22.50	22.50
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 #: [illegible]

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
TCMX	ZB-R1	1.0379	0.986504	95	95	0
PCB	↓	↓	0.757376	73	73	↓

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 #:_____

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: 22 & 23

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	ND	93.92	166.3	563	563	998	998	56	56

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 #: 16401(SD)
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
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: WG 12202

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	~~16.67~~ NA	16.66	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 #: 26407R25
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 5460

Concentration = $\frac{68.59}{0.976}$

= 70 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	5460-1 = 876.776184 (2) (10) / 4.75)(60)(0.976)			1254-1 =	61.53
				2 =	62.281
				3 =	64.105
	=	68.45 61.53		4 =	89.864
				5 =	67.606
				6 =	64.171
				Ave	68.59

Comments: [illegible]

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD
SL-280-SA6-SS-0.0-0.5DUP
SL-059-SA6-SS-0.0-0.5MS
SL-059-SA6-SS-0.0-0.5MSD
SL-059-SA6-SS-0.0-0.5DUP
SL-072-SA6-SB-4.0-5.0MS
SL-072-SA6-SB-4.0-5.0MSD
SL-072-SA6-SB-4.0-5.0DUP

Introduction

This data review covers 29 soil 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, 7470A, and 7471A 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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)	Boron Strontium	4.280 ug/L 0.290 ug/L	All water samples in SDG DE199
ICB/CCB	Beryllium Cobalt Mercury Vanadium	0.059 ug/L 0.12 ug/L 0.089 ug/L 0.13 ug/L	All water samples in SDG DE199
PB (prep blank)	Calcium Iron Lead Magnesium Manganese Phosphorus Strontium Tin Titanium Zirconium	6.189 mg/Kg 4.548 mg/Kg 0.020 mg/Kg 0.739 mg/Kg 0.047 mg/Kg 1.561 mg/Kg 0.033 mg/Kg 1.548 mg/Kg 0.076 mg/Kg 0.517 mg/Kg	All soil samples in SDG DE199

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Titanium	0.39 ug/L	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5
ICB/CCB	Titanium	0.19 ug/L	SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5
ICB\CCB	Arsenic	0.57 ug/L	SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-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
EB-SA6-SB-071311	Boron Strontium	7.4 ug/L 0.47 ug/L	7.4U ug/L 0.47U ug/L
SL-280-SA6-SS-0.0-0.5	Tin	2.2 mg/Kg	2.2U mg/Kg
SL-281-SA6-SS-0.0-0.5	Tin Zirconium	2.2 mg/Kg 1.3 mg/Kg	2.2U mg/Kg 1.3U mg/Kg
SL-300-SA6-SS-0.0-0.5	Tin Zirconium	2.0 mg/Kg 1.6 mg/Kg	2.0U mg/Kg 1.6U mg/Kg
SL-030-SA6-SS-0.0-0.5	Tin	2.4 mg/Kg	2.4U mg/Kg
SL-035-SA6-SS-0.0-0.5	Tin Zirconium	1.9 mg/Kg 2.3 mg/Kg	1.9U mg/Kg 2.3U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-040-SA6-SS-0.0-0.5	Tin Zirconium	2.4 mg/Kg 2.4 mg/Kg	2.4U mg/Kg 2.4U mg/Kg
SL-047-SA6-SS-0.0-0.5	Tin Zirconium	2.3 mg/Kg 1.6 mg/Kg	2.3U mg/Kg 1.6U mg/Kg
SL-059-SA6-SS-0.0-0.5	Tin Zirconium	2.1 mg/Kg 1.6 mg/Kg	2.1U mg/Kg 1.6U mg/Kg
SL-066-SA6-SS-0.0-0.5	Tin Zirconium	2.0 mg/Kg 1.8 mg/Kg	2.0U mg/Kg 1.8U mg/Kg
SL-067-SA6-SS-0.0-0.5	Tin Zirconium	2.2 mg/Kg 2.1 mg/Kg	2.2U mg/Kg 2.1U mg/Kg
SL-278-SA6-SS-0.0-0.5	Tin Zirconium	2.2 mg/Kg 1.5 mg/Kg	2.2U mg/Kg 1.5U mg/Kg
SL-279-SA6-SS-0.0-0.5	Tin Zirconium	2.0 mg/Kg 1.6 mg/Kg	2.0U mg/Kg 1.6U mg/Kg
SL-072-SA6-SB-4.0-5.0	Tin Zirconium	2.5 mg/Kg 2.3 mg/Kg	2.5U mg/Kg 2.3U mg/Kg
SL-072-SA6-SB-9.0-10.0	Tin	2.7 mg/Kg	2.7U mg/Kg
SL-116-SA6-SB-2.5-3.5	Tin	2.5 mg/Kg	2.5U mg/Kg
SL-118-SA6-SB-4.0-5.0	Tin	1.8 mg/Kg	1.8U mg/Kg
SL-118-SA6-SB-10.5-11.5	Tin Zirconium	1.9 mg/Kg 1.2 mg/Kg	1.9U mg/Kg 1.2U mg/Kg
SL-083-SA6-SB-4.0-5.0	Tin	2.2 mg/Kg	2.2U mg/Kg
SL-083-SA6-SB-9.0-10.0	Tin	2.5 mg/Kg	2.5U mg/Kg
SL-046-SA6-SS-0.0-0.5	Tin Zirconium	1.8 mg/Kg 1.4 mg/Kg	1.8U mg/Kg 1.4U mg/Kg

Sample EB-SA6-SB-071311 was identified as an equipment blank. No metal contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB-SA6-SB-071311	7/13/11	Boron Calcium Strontium	7.4 ug/L 74.0 ug/L 0.47 ug/L	All soil samples in SDG DE199

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 with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-280-SA6-SS-0.0-0.5	Boron	2.9 mg/Kg	2.9U mg/Kg
SL-300-SA6-SS-0.0-0.5	Boron	1.8 mg/Kg	1.8U mg/Kg
SL-030-SA6-SS-0.0-0.5	Boron	3.0 mg/Kg	3.0U mg/Kg
SL-035-SA6-SS-0.0-0.5	Boron	1.7 mg/Kg	1.7U mg/Kg
SL-040-SA6-SS-0.0-0.5	Boron	1.8 mg/Kg	1.8U mg/Kg
SL-047-SA6-SS-0.0-0.5	Boron	1.0 mg/Kg	1.0U mg/Kg
SL-059-SA6-SS-0.0-0.5	Boron	0.63 mg/Kg	0.63U mg/Kg
SL-066-SA6-SS-0.0-0.5	Boron	1.0 mg/Kg	1.0U mg/Kg
SL-067-SA6-SS-0.0-0.5	Boron	1.3 mg/Kg	1.3U mg/Kg
SL-278-SA6-SS-0.0-0.5	Boron	1.6 mg/Kg	1.6U mg/Kg
SL-279-SA6-SS-0.0-0.5	Boron	2.4 mg/Kg	2.4U mg/Kg
SL-072-SA6-SB-4.0-5.0	Boron	1.0 mg/Kg	1.0U mg/Kg
SL-072-SA6-SB-9.0-10.0	Boron	0.77 mg/Kg	0.77U mg/Kg
SL-116-SA6-SB-2.5-3.5	Boron	0.42 mg/Kg	0.42U mg/Kg
SL-046-SA6-SS-0.0-0.5	Boron	0.82 mg/Kg	0.82U mg/Kg

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-280-SA6-SS-0.0-0.5MS/MSD (All soil samples in SDG DE199)	Antimony Copper Vanadium	22 (75-125) - 74 (75-125)	14 (75-125) 65 (75-125) -	28 (≤20) - -	J (all detects) UJ (all non-detects)	A
SL-280-SA6-SS-0.0-0.5MS/MSD (All soil samples in SDG DE199)	Arsenic	127 (75-125)	-	-	J (all detects)	A
SL-059-SA6-SS-0.0-0.5MS/MSD (All soil samples in SDG DE199)	Phosphorus	233 (75-125)	-	28 (≤20)	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-280-SA6-SS-0.0-0.5DUP (All soil samples in SDG DE199)	Arsenic Cobalt	33 (≤20) 34 (≤20)	- -	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
SL-059-SA6-SS-0.0-0.5DUP (All soil samples in SDG DE199)	Calcium	43 (≤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.

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 DE199	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 DE199

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Antimony Phosphorus	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q,E)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Copper Vanadium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Arsenic	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-046-SA6-SS-0.0-0.5	Arsenic Cobalt Calcium	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-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
Metals - Laboratory Blank Data Qualification Summary - SDG DE199

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE199	EB-SA6-SB-071311	Boron Strontium	7.4U ug/L 0.47U ug/L	A	B
DE199	SL-280-SA6-SS-0.0-0.5	Tin	2.2U mg/Kg	A	B
DE199	SL-281-SA6-SS-0.0-0.5	Tin Zirconium	2.2U mg/Kg 1.3U mg/Kg	A	B
DE199	SL-300-SA6-SS-0.0-0.5	Tin Zirconium	2.0U mg/Kg 1.6U mg/Kg	A	B
DE199	SL-030-SA6-SS-0.0-0.5	Tin	2.4U mg/Kg	A	B
DE199	SL-035-SA6-SS-0.0-0.5	Tin Zirconium	1.9U mg/Kg 2.3U mg/Kg	A	B
DE199	SL-040-SA6-SS-0.0-0.5	Tin Zirconium	2.4U mg/Kg 2.4U mg/Kg	A	B
DE199	SL-047-SA6-SS-0.0-0.5	Tin Zirconium	2.3U mg/Kg 1.6U mg/Kg	A	B
DE199	SL-059-SA6-SS-0.0-0.5	Tin Zirconium	2.1U mg/Kg 1.6U mg/Kg	A	B
DE199	SL-066-SA6-SS-0.0-0.5	Tin Zirconium	2.0U mg/Kg 1.8U mg/Kg	A	B
DE199	SL-067-SA6-SS-0.0-0.5	Tin Zirconium	2.2U mg/Kg 2.1U mg/Kg	A	B
DE199	SL-278-SA6-SS-0.0-0.5	Tin Zirconium	2.2U mg/Kg 1.5U mg/Kg	A	B
DE199	SL-279-SA6-SS-0.0-0.5	Tin Zirconium	2.0U mg/Kg 1.6U mg/Kg	A	B
DE199	SL-072-SA6-SB-4.0-5.0	Tin Zirconium	2.5U mg/Kg 2.3U mg/Kg	A	B
DE199	SL-072-SA6-SB-9.0-10.0	Tin	2.7U mg/Kg	A	B
DE199	SL-116-SA6-SB-2.5-3.5	Tin	2.5U mg/Kg	A	B
DE199	SL-118-SA6-SB-4.0-5.0	Tin	1.8U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE199	SL-118-SA6-SB-10.5-11.5	Tin Zirconium	1.9U mg/Kg 1.2U mg/Kg	A	B
DE199	SL-083-SA6-SB-4.0-5.0	Tin	2.2U mg/Kg	A	B
DE199	SL-083-SA6-SB-9.0-10.0	Tin	2.5U mg/Kg	A	B
DE199	SL-046-SA6-SS-0.0-0.5	Tin Zirconium	1.8U mg/Kg 1.4U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE199

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE199	SL-280-SA6-SS-0.0-0.5	Boron	2.9U mg/Kg	A	F
DE199	SL-300-SA6-SS-0.0-0.5	Boron	1.8U mg/Kg	A	F
DE199	SL-030-SA6-SS-0.0-0.5	Boron	3.0U mg/Kg	A	F
DE199	SL-035-SA6-SS-0.0-0.5	Boron	1.7U mg/Kg	A	F
DE199	SL-040-SA6-SS-0.0-0.5	Boron	1.8U mg/Kg	A	F
DE199	SL-047-SA6-SS-0.0-0.5	Boron	1.0U mg/Kg	A	F
DE199	SL-059-SA6-SS-0.0-0.5	Boron	0.63U mg/Kg	A	F
DE199	SL-066-SA6-SS-0.0-0.5	Boron	1.0U mg/Kg	A	F
DE199	SL-067-SA6-SS-0.0-0.5	Boron	1.3U mg/Kg	A	F
DE199	SL-278-SA6-SS-0.0-0.5	Boron	1.6U mg/Kg	A	F
DE199	SL-279-SA6-SS-0.0-0.5	Boron	2.4U mg/Kg	A	F
DE199	SL-072-SA6-SB-4.0-5.0	Boron	1.0U mg/Kg	A	F
DE199	SL-072-SA6-SB-9.0-10.0	Boron	0.77U mg/Kg	A	F
DE199	SL-116-SA6-SB-2.5-3.5	Boron	0.42U mg/Kg	A	F

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE199	SL-046-SA6-SS-0.0-0.5	Boron	0.82U mg/Kg	A	F

LDC #: 26407R4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-24-11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OR
2nd Reviewer: MG

METHOD: Metals (EPA SW 846 Method 6010B/6020~~A~~/~~7000~~) 7420A/7471A

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: 7/13/11
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	A	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	EB=20

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-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	(#1) MS	32	
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24	DUP	34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25	(#8) MS	35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26	MSD	36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27	DUP	37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28	(#13) MS	38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29	MSD	39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30	DUP	40	

Notes: _____

DC #: 26407/R4

VALIDATION FINDINGS CHECKLIST

Reviewer: QR
2nd Reviewer: MG

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 #: 26407Y4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer: MG

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-21		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
		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
SC-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
25-27		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr
28-30		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr

LDC #: 26407R4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reason: B

Reviewer: CZ
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: ug/L
Soil preparation factor applied: 100x
Associated Samples: All Water

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	20									
B		4.280		21.4	7.4									
Be			0.059	0.295										
Co			0.12	0.6										
Hg			0.089	0.445										
Sr		0.290		1.45	0.47									
V			0.13	0.65										

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All Soil

Analyte	Maximum PB[a] (mg/Kg)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	21
Ca	6.189	30.95																				
Fe	4.548	22.74																				
Pb	0.020	0.1																				
Mg	0.739	3.695																				
Mn	0.047	0.235																				
P	1.561	7.805																				
Sr	0.033	0.165																				
Sn	1.548	7.74	2.2	2.2	2.0	2.4	1.9	2.4	2.3	2.1	2.0	2.2	2.2	2.0	2.5	2.7	2.5	1.8	1.9	2.2	2.5	1.8
Ti	0.076	0.38																				
Zr	0.517	2.585		1.3	1.6		2.3	2.4	1.6	1.6	1.8	2.1	1.5	1.6	2.3				1.2			1.4

LDC #: 26407R4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: mg/Kg
Soil preparation factor applied: 100x
Associated Samples: 1-12

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit										
Ti			0.39	0.195										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 13-19, 21

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit										
Ti			0.19	0.1										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 14-19, 21

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit										
As			0.57	0.57										

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 #: 26407R4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: AC
2nd Reviewer: MG

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

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

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

Reason: F

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

Sampling date: 7/13/11 Soil factor applied 100x

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

Analyte	Blank ID	Sample Identification											
	20	Action Level	1	3	4	5	6	7	8	9	10	11	
B	7.4	3.7	2.9	1.8	3.0	1.7	1.8	1.0	0.63	1.0	1.3	1.6	
Ca	74.0	37											
Sr	0.47	0.235											

Analyte	Blank ID	Sample Identification											
	20	Action Level	12	13	14	15	21						
B	7.4	3.7	2.4	1.0	0.77	0.42	0.82						
Ca	74.0	37											
Sr	0.47	0.235											

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 #: 26057R4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: CR
2nd Reviewer: MG

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	Concentration (ug/L)	Limit (<MDL)	Associated Samples	Qualifications
	7/24/20/11	ICSA (22:32/01:12)	MA	4		1-4,6,9-16,18,19,21	NO Qual (<10x)

Comments: _____

LDC #: 26607R4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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

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
	22/23	S	Sb	22	14	28	All Soil	J/UJ/A (Q, E) (PS = 102%)
			As	127				J det/A (Q)
			Cu		65			J/UJ/A
			V	74				
	25/26	S	P	~~233~~ or 233		28		J/UJ/A ~~(E)~~ (Q, E)
			P	~~233~~				~~J det/A (Q)~~

Comments:

LDC #: 26407R4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

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

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
		24	S	As	33 (≤20)		All Soil	J (UJ/ACE)
				Co	34		↓	↓
		27	S	Co	43		↓	↓

Comments: _____

LDC #: 26407R4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

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 / True x 100 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)	Li	599.33	600	99.9	99.9	Y
ICV	ICP/MS (Initial calibration)	Ni	517.8	500	103.6	103.6	
ICV	CVAA (Initial calibration)	Hg	2.60	2.5	104.0	104.0	
CCV	ICP (Continuing calibration)	Ti	490.39	500	98.1	98.1	
CCV	ICP/MS (Continuing calibration)	V	252.90	250	101.2	101.2	
CCV	CVAA (Continuing calibration)	Hg	1.04	1	104	104	
	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 #: 26407B4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 3
Reviewer: CR
2nd Reviewer: MG

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	Zn	20.3 ug/L	20 ug/L	101.5	101.5	Y
LCS	Laboratory control sample	Na	767.5	726	106	106	
28	Matrix spike	Hg	(SSR-SR) 0.1954	0.1703	109	109	
24	Duplicate	Zn	63.0814	72.9514	15	15	
8	ICP serial dilution	Ti	8107.42 ug/L	8317.45 ug/L	3	3	

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 #: 46105-1

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CC
2nd reviewer: MG

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 Cd 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:

$$\frac{100mL(2)(0.846mg/L)}{0.959(1.01g)(1000)} = 0.17 mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	15600	15606	Y
		Sb	0.12	0.12	
		As	5.7	5.7	
		Ba	80.6	80.0	
		Be	0.44	0.44	
		B	2.9	2.9	
		Cd	0.17	0.17	
		Ca	5650	5650	
		Cr	16.4	16.4	
		Co	6.4	6.4	
		Cu	13.1	13.1	
		Fe	24800	24800	
		Pb	7.3	7.3	
		Li	22.6	22.6	
		Mg	5470	5470	
		Mn	277	277	
		Hg	0.16	0.16	
		Mo	0.48	0.48	
		Ni	11.0	11.0	
		P	445	445	

Note:

LDC #: 26651

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: MG

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:

$$2 = \frac{100\,mL\,(115.0634\,mg/L)}{0.976\,(1.01\,g)} = 11672.6\,mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	K	3810	3810	Y
		Se	0.11	0.11	
		Ag	0.044	0.044	
		Mg	92.4	92.4	
		Sr	23.4	23.4	
		Tl	0.20	0.20	
		Sn	2.2	2.2	
		Ti	1020	1020	
		V	35.7	35.7	
		Zn	63.1	63.1	
		Zr	2.8	2.8	
	2	Al	11700	11700	
		Sb	0.16	0.16	
		As	14.2	14.2	
		Ba	66.3	66.3	
		Be	0.35	0.35	
		Cd	0.21	0.21	
		Ca	13300	13300	
		Cr	15.3	15.3	

Note:

LDC #: 16651

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: MG

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 = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation: see previous page

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)
	2	Co	16.1	16.1	Y
		Cu	24.3	24.3	
		Fe	43800	43800	
		Pb	8.5	8.5	
		Li	15.8	15.8	
		Mo	4150	4150	
		Mn	252	252	
		Hg	0.068	0.068	
		Mo	0.78	0.78	
		Ni	11.1	11.1	
		P	1780	1780	
		K	2610	2610	
		Se	0.13	0.13	
		Ag	0.048	0.048	
		Na	238	238	
		Sr	41.9	41.9	
		Tl	0.14	0.14	
		Sn	2.2	2.2	
		Ti	725	725	
		V	43.8	43.8	

Note: _____

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CC
2nd reviewer: MG

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 Li were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

$3 = \frac{100mL\ (0.16503\ mg/L)}{0.972\ (1.04g)} = 16.3\ mg/kg$

#	Sample ID	Analyte	Reported Concentration mg/kg	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	2	Zn	63.8	63.8	Y
		Cr	1.3	1.3	
	3	Al	12500	12500	
		As	4.9	4.9	
		Ba	60.4	60.4	
		Be	0.35	0.35	
		B	1.8	1.8	
		Cd	0.23	0.23	
		Ca	12800	12800	
		Cr	12.8	12.8	
		Co	5.0	5.0	
		Cu	8.9	8.9	
		Fe	28700	28700	
		Pb	6.3	6.3	
		Li	16.3	16.3	
		Mg	4770	4770	
		Mn	264	264	
		Ni	0.060	0.060	
		Mo	0.56	0.56	

Note:

LDC #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CC
2nd reviewer: MG

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 = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation:

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

see previous page

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	3	Ni	7.6	7.6	Y
		P	927	927	
		K	3270	3270	
		Se	0.067	0.067	
		As	0.062	0.062	
		Na	161	161	
		Sr	32.8	32.8	
		Tl	0.15	0.15	
		Sn	2.0	2.0	
		Ti	870	870	
		V	25.1	25.1	
		Zn	57.7	57.7	
		Zr	1.6	1.6	

Note: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil

Parameters: Herbicides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 15 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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 herbicide contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
PBLK12201	7/20/11	Dicamba MCPP 2,4,5-T	1.2 ug/Kg 470 ug/Kg 0.090 ug/Kg	All samples in SDG DE199

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-280-SA6-SS-0.0-0.5	2,4,5-T	0.16 ug/Kg	0.18U ug/Kg
SL-300-SA6-SS-0.0-0.5	Dicamba 2,4,5-T	0.66 ug/Kg 0.22 ug/Kg	1.2U ug/Kg 0.22U ug/Kg
SL-030-SA6-SS-0.0-0.5	MCPP	140 ug/Kg	260U ug/Kg
SL-047-SA6-SS-0.0-0.5	MCPP	380 ug/Kg	380U ug/Kg
SL-278-SA6-SS-0.0-0.5	MCPP	110 ug/Kg	260U ug/Kg
SL-279-SA6-SS-0.0-0.5	2,4,5-T	0.40 ug/Kg	0.40U ug/Kg

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
SL-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	MCPA Dinoseb	-10 (10-213) 0 (10-46)	2 (10-213) 6 (10-46)	- 200 (≤35)	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A
SL-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	2,4-DP 2,4,5-TP (silvex)	- -	- -	60 (≤50) 82 (≤35)	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 with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS12201	2,4,5-TP	64 (68-114)	All samples in SDG DE199	J (all detects) UJ (all non-detects)	P
LCS12201	Dinoseb	6 (10-36)	All samples in SDG DE199	J (all detects) R (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs 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
SL-280-SA6-SS-0.0-0.5	MCPA	70.97	J (all detects)	A
SL-281-SA6-SS-0.0-0.5	MCPA	56.07	J (all detects)	A
SL-030-SA6-SS-0.0-0.5	MCPP 2,4,5-TP	43.87 91.91	J (all detects) J (all detects)	A
SL-035-SA6-SS-0.0-0.5	2,4-D	69.94	J (all detects)	A
SL-047-SA6-SS-0.0-0.5	MCPP	59.70	J (all detects)	A
SL-059-SA6-SS-0.0-0.5	MCPA	47.64	J (all detects)	A
SL-278-SA6-SS-0.0-0.5	MCPP MCPA	57.63 68.14	J (all detects) J (all detects)	A
SL-046-SA6-SS-0.0-0.5	MCPA	52.84	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5	MCPA	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE199	SL-280-SA6-SS-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE199	SL-280-SA6-SS-0.0-0.5	2,4-DP 2,4,5-TP	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5	2,4,5-TP	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	P	Laboratory control samples (%R) (L)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5	MCPA	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE199	SL-047-SA6-SS-0.0-0.5	MCPP	J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE199	SL-030-SA6-SS-0.0-0.5	MCPP 2,4,5-TP	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE199	SL-035-SA6-SS-0.0-0.5	2,4-D	J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE199	SL-278-SA6-SS-0.0-0.5	MCPP MCPA	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE199

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DE199	SL-280-SA6-SS-0.0-0.5	2,4,5-T	0.18U ug/Kg	A	B
DE199	SL-300-SA6-SS-0.0-0.5	Dicamba 2,4,5-T	1.2U ug/Kg 0.22U ug/Kg	A	B
DE199	SL-030-SA6-SS-0.0-0.5	MCPP	260U ug/Kg	A	B
DE199	SL-047-SA6-SS-0.0-0.5	MCPP	380U ug/Kg	A	B
DE199	SL-278-SA6-SS-0.0-0.5	MCPP	260U ug/Kg	A	B
DE199	SL-279-SA6-SS-0.0-0.5	2,4,5-T	0.40U ug/Kg	A	B

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R5 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FJ
2nd Reviewer: C

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: 7/13/11
II	Initial calibration	A	%D RSD ≤20, r^2
III.	Calibration verification/ICV	A	ICV/CCV ≤20
IV.	Blanks	SW	
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/RL/LOQ/LODs	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-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	PBLK1220	31	
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22		32	
3	SL-300-SA6-SS-0.0-0.5	13	SL-046-SA6-SS-0.0-0.5	23		33	
4	SL-030-SA6-SS-0.0-0.5	14	#1 MS	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	#1 MSD	25		35	
6	SL-040-SA6-SS-0.0-0.5	16		26		36	
7	SL-047-SA6-SS-0.0-0.5	17		27		37	
8	SL-059-SA6-SS-0.0-0.5	18		28		38	
9	SL-066-SA6-SS-0.0-0.5	19		29		39	
10	SL-067-SA6-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26407 R5
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FM
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 #: 26407R5
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FZ
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-Dinitrotoluene	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. 2,4-DP	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 #: 26407R5

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: C

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 all samples associated with a given method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction procedure was performed?
Y N N/A Was a method blank performed with each extraction batch?
Y N N/A Were any contaminants found in the method blanks? If yes, please see findings below.
Level IV/D Only
Y N N/A (Gasoline and aromatics only)Was a method blank analyzed with each 24 hour batch?
Y N N/A Was a method blank analyzed for each analytical / extraction batch of ≤20 samples?

(B)

Blank extraction date: 7/20/11 **Blank analysis date:** 7/23/11 **Associated samples:** All
Conc. units: ug/kg

Compound	Blank ID	Sample Identification						
	PBLK 1220	1	3	4	7	11	12	
G	1.2	-	0.66/1.24	-	-	-	-	
I	470	-	-	140/2604	380/4	110/2604	-	
C	0.090	0.16/0.184	0.22/4	-	-		0.40/4	

Blank extraction date: ___ **Blank analysis date:** ___ **Associated samples:** ___
Conc. units: ___

Compound	Blank ID	Sample Identification						

ALL 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 #: 26407R5

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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".

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
	14+15	J	-10 (10-213)	2 (10-213)	( )	#1	J/R/A (Q)
		N	( )	( )	60 (50)	↓	J/Adet (Q)
		D	( )	( )	82 (35)		↓
		E	0 (10-46)	6 (10-46)	200 (↓)		J/R/A (Q)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		

LDC #: 26407R5

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/2201	D	64 (68-114)	( )	( )	All	J/UJ/P (L)
		E	6 (10-36)	( )	( )	↓	J/R/P ↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407R5

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 col. Finding ≤ 40	Associated Samples	Qualifications
	J	70.97	1	J/A det * I*
	J	56.07	2	↓
	I	43.87	4	↓
	D	91.91		
	I	167.58	5	↓
	A	69.94	↓	↓
	J	156.73	6	↓
	I	59.70	7	↓
	J	47.64	8	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26467R5

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 column ≤ 40 Finding	Associated Samples	Qualifications
	I	57.63	11	J/A det * IX
	J	68.14		
	J	52.84	13	✓ ✓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407R5
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 CF (200.6/100.7 std)	Recalculated CF (200.6/100.1 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	IH15193	7/12/11	2,4-DB ZB-XLB	7.74×10^{-2}	7.74×10^{-2}	7.67×10^{-2}	7.67×10^{-2}	7.3	7.3
			Dinoseb	3.83×10^{-1}	3.83×10^{-1}	4.26×10^{-1}	4.26×10^{-1}	15.8	15.8
			ZB-35	8.52×10^{-2}	8.52×10^{-2}	8.44×10^{-2}	8.44×10^{-2}	9.1	9.1
2			↓	3.69×10^{-1}	3.69×10^{-1}	4.08×10^{-1}	4.08×10^{-1}	14.3	14.3
3	IH15214	8/2/11	↓	8.01×10^{-2}	8.01×10^{-2}	7.80×10^{-2}	7.80×10^{-2}	7.1	7.1
			↓	3.82×10^{-1}	3.82×10^{-1}	4.26×10^{-1}	4.26×10^{-1}	17.0	17.0
			↓	8.75×10^{-2}	8.75×10^{-2}	8.63×10^{-2}	663×10^{-2}	8.6	8.6
4			↓	3.70×10^{-1}	3.70×10^{-1}	4.13×10^{-1}	4.13×10^{-1}	16.2	16.2

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 #: 26407R5
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 23:37	7/22/11	2,4-DB ZB-XLB	200.60	186.54	186.54	7.0	7.0
			Dinoseb	100.70	86.44	86.44	14.2	14.2
			↓ ZB-35	200.6	195.04	195.04	2.8	2.8
2			↓	100.70	92.21	92.21	8.4	8.4
	CCV 5:07	7/23/11	↓ ZB-XLB	200.6	192.02	192.02	4.3	4.3
			↓	100.70	83.95	83.95	16.6	16.6
3			↓ ZB 35	200.6	178.95	178.95	10.8	10.8
			↓	100.70	84.45	84.45	16.1	16.1
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 #: [illegible]

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	
2,4-DCAA	ZB-XLB	6.65	9.303762	140	140	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: EZ
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: 14 + 15

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)	8.29	8.29	ND	5.25	6.68	63	63	81	81	24	24
Dinoseb (8151)	14.11	14.11	ND	0	0.89	0	0	6	6	200	200
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 #: 2640 /R3
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
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/1220/

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	6.6	NA	79	79				
Dinoseb (8151)	14.18	↓	0.91	↓	6	6	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 #: 26407R5
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: [illegible]
2nd Reviewer: A

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-T

Concentration = $\frac{954\,(100)\,(2000)}{32485(6.65\times10^{-1})\,(60.3)(0.959)(1000)}$

= 0.153 ng/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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5MS
SL-278-SA6-SS-0.0-0.5DUP
SL-030-SA6-SS-0.0-0.5MS
SL-030-SA6-SS-0.0-0.5DUP
SL-281-SA6-SS-0.0-0.5MS
SL-281-SA6-SS-0.0-0.5DUP

Introduction

This data review covers 26 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 9012B for Cyanide, EPA Method 300.0 for Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, 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 deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 EB-SA6-SB-071311 was identified as an equipment blank. No contaminant concentrations were found.

V. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

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 DE199	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 DE199

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-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 DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R6 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-2H)
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OL
2nd Reviewer: MG

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-N, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 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: 7/13/11
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	A	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	A/	
X	Field blanks	ND	EB=20

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-280-SA6-SS-0.0-0.5	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	(XX11) MS	32	
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	↓ DUP	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24	(XX4) MS	34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25	↓ DUP	35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26	(XX2) MS	36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27	↓ DUP	37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30		40	

Notes:

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?			✓	

LDC #: 46-0 1112

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: CP
2nd Reviewer: MG

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 #: 26407R6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: AC
2nd reviewer: MG

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3,8,12-19		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
4,5,7,9-11,20,21		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
6		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
Q: 22,23		pH TDS Cl F (NO_3) NO_2 SO_4 PO_4 ALK CN^- NH_3 TKN TOC Cr^{6+} (ClO_4)
24,25		pH TDS Cl F NO_3 NO_2 SO_4 PO_4 ALK (CN^-) NH_3 TKN TOC Cr^{6+} ClO_4
26,27		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 #: 26607R6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Reviewer: OZ
2nd Reviewer: MG

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 6/30/11

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)	Area	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	ClO4	s1	2	0.002	*1.000*	1.000	Y
		s2	4	0.008			
		s3	10	0.027			
		s4	25	0.07			
		s5	100	0.302			
Calibration verification	F	CCV	1.5	1.6539	110	110	
Calibration verification	NO3	↓	↓	1.5728	105	105	
Calibration verification	CN	↓	0.15	0.16330	109	109	↓

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 #: C640146

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: GR
2nd Reviewer: MG

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	10.6	10	106	-	Y
22	Matrix spike sample	Cl	(SSR-SR) 522	495	105	105	↓
23	Duplicate sample	NO3	2.3	1.8	24	25	

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 #: 26407B6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: MG

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 CrVI / F / NO3 reported with a positive detect were recalculated and verified using the following equation:

Concentration =

F: $y = 0.2706x - 0.0028$

NO_3: $y = 0.6803x - 0.0217$

CrVI: $y = 0.012x - 0.0027$

Recalculation:

F=4: $\frac{(0.039+0.0028)(50mL)}{0.2703(4.9g)(0.973)} = 1.6 mg/kg$

5: $NO_3 = \frac{(0.074+0.0217)(50mL)}{0.6803(4.9g)(0.986)} = 1.5 mg/kg$

2: $Cr^{VI} = (0.1647(82.57)-0.22)/(24.7)(0.976) = 0.55 mg/kg$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
0.976	2	CrVI	0.55	0.53	Y
0.973	4	F	1.6	1.6	
		NO3	7.2	7.2	
0.986	5	NO3	1.5	1.5	
		CrVI	0.67	0.67	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Gasoline

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-278-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
TB-071311
EB-SA6-SB-071311
EB-SA6-SS-071311

Introduction

This data review covers 8 soil samples and 3 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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-071311 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found.

Samples EB-SA6-SB-071311 and EB-SA6-SS-071311 were identified as equipment blanks. No total petroleum hydrocarbons as gasoline contaminants were found.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-278-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 TB-071311 EB-SA6-SB-071311 EB-SA6-SS-071311	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R7 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11

SDG #: DE199 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: [illegible]

2nd Reviewer: [illegible]

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: 7/13/11
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/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	NO	TB=9 EB=10, 11

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

Validated Samples: SOIL + water

1	1	SL-278-SA6-SS-0.0-0.5	11	2	EB-SA6-SS-071311 W	21	1	BLK05	31	
2	1	SL-072-SA6-SB-4.0-5.0	12			22	2	BLKNV	32	
3	1	SL-072-SA6-SB-9.0-10.0	13			23			33	
4	1	SL-116-SA6-SB-2.5-3.5	14			24			34	
5	1	SL-118-SA6-SB-4.0-5.0	15			25			35	
6	1	SL-118-SA6-SB-10.5-11.5	16			26			36	
7	1	SL-083-SA6-SB-4.0-5.0	17			27			37	
8	1	SL-083-SA6-SB-9.0-10.0	18			28			38	
9	2	TB-071311 W	19			29			39	
10	2	EB-SA6-SB-071311 W	20			30			40	

Notes: _____

LDC #: 26407R7
SDG #: all waters

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FM
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 #: 26407R7
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 #: 26407R7
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 CF (220std)	Recalculated CF (220std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/29/10	GRU	35488	35488	37329	37329	12.7	12.7
				(5512)	(5512)				
2	ICAL	6/15/11	GRU	7581	7581	7279	7279	5.8	5.8
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 #: 26407R7
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 10:25	7/18/11	GRO	220.00	200.59	200.59	8.8	8.8
2	CCV 14:28	7/15/11	GRO	550.0	498.43	498.43	9.4	9.4
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 #: [illegible]

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1

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	
TFT	NS	845.55	887.827	105	105	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 #: 26407R1
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 ID 8012

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	8.49	8.81	77	77	80	80	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 #: 26407R7
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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Total Petroleum Hydrocarbons as Extractables

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 22 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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No total petroleum hydrocarbons as extractable contaminants were found.

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-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	Extractable fuel hydrocarbons (C8-C11)	-	0 (49-123)	200 (≤20)	J (all detects) R (all non-detects)	A

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	Extractable fuel hydrocarbons (C12-C14)	144 (49-123)	126 (49-123)	-	J (all 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. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5	Extractable fuel hydrocarbons (C8-C11)	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE199	SL-280-SA6-SS-0.0-0.5	Extractable fuel hydrocarbons (C12-C14)	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R8 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FJ
2nd Reviewer: A

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: 7/13/11
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	SW	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 20

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-280-SA6-SS-0.0-0.5 S	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	PBLK30202
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	#/MS	32	PBLK05197
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	#/MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25		35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26		36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27		37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30		40	

Notes:

LDC #: 26407R8
SDG #: pw none

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
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 #: 26407R8
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 #: 26407R8

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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 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
	22423	EPH (C8-C11)	( )	0 (49-123)	200 (20)	#1	J/R/A (Q)
		EPH (C12-C14)	144 (49-123)	126 (49-123)	( )		J/A det (Q)
		EPH (C21-C30)	-327 (↓)	-1170 (↓)	56 (↓)		no qual parent 7/4
		EPH (C30-C40)	-511 (↓)	-105 (↓)	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		

LDC #: 26407R8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
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 (288 std)	Recalculated CF (288 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	TPH J193A	7/12/11	C8 - C40	18866.84	18866.84	19634	19634	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 #: 26407R5
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
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 10:07	7/19/11	EFH C8-C40	287.98	257.82	257.82	10.5	10.5
	ccv 21:21	7/22/11	↓	143.97	150.42	150.42	4.5	4.5
2								
	ccv 4:29	7/23/11	↓	287.98	310.23	310.23	7.7	7.7
3	ccv 9:55	7/23/11	↓	575.96	590.90	590.90	2.6	2.6
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 #: [illegible]

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	0.715868	72	72	0
or thoterphenyl	✓	1.0	1.00	100	100	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 #: [illegible]

SDG #: [illegible]

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; SA = Spike added; SC = Sample concentration

RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike; MSD = Matrix spike duplicate

MS/MSD samples: 22 + 23

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)											
EPH (C30-C40)	2.51	2.51	68.49	55.64	65.84	-51	O	-105	O	17	17

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 #: 26401K

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: LCS30202

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 (C_{30}-C_{40})	2.51	NA	2.22	NA	88	88	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 #: 26407R8
SDG #: MU [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 $C_{30} - C_{40}$

Concentration = $\frac{(4034222)(1000)(2)}{(19634)(60)(0.959)(1000)}$

71 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: July 13, 2011

LDC Report Date: October 26, 2011

Matrix: Soil/Water

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5MS
SL-030-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 9 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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No explosive contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SB-071311	7/13/11	RDX	0.95 ug/L	All soil samples in SDG DE199

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. 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 with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D20199 (All water samples in SDG DE199)	PETN	121 (80-120)	125 (80-120)	-	J (all detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	EB-SA6-SB-071311	PETN	J (all detects)	P	Laboratory control samples (%R) (L)
DE199	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 EB-SA6-SB-071311	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R40 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FT
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: 7/13/11
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	A	
VII.	Laboratory control samples	SW	LCS/D
VIII.	Target compound identification	A	
IX.	Compound quantitation RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	SW	EB = 7

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

Validated Samples: soil + water

1 1	SL-030-SA6-SS-0.0-0.5 S	11 1	PBLK07207	21		31	
2	SL-035-SA6-SS-0.0-0.5	12 2	PBLK20199	22		32	
3	SL-047-SA6-SS-0.0-0.5	13		23		33	
4	SL-066-SA6-SS-0.0-0.5	14		24		34	
5	SL-067-SA6-SS-0.0-0.5	15		25		35	
6	SL-278-SA6-SS-0.0-0.5	16		26		36	
7 2	EB-SA6-SB-071311 W	17		27		37	
8	SL-046-SA6-SS-0.0-0.5	18		28		38	
9	#1 MS	19		29		39	
10	#1 MSD	20		30		40	

Notes:

LDC #: 26407R40
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FM
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 #: 26407R40
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.	✓			

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 #: 26407R40

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: FT
2nd Reviewer: A

METHOD: __ GC __ HPLC

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: 7/13/11
Field blank type: (circle one) Field Blank / Trip Blank / Atmospheric Blank / Ambient Blank
Rinsate / Equipment Rinsate / Equipment Blank / Source Blank / Other:

Associated Samples: All SOILS (ND)

Compound	Blank ID	Blank ID	Sample Identification							
	7									
B	0.95									
CRQL										

Blank units: _____ Associated sample units: _____
Sampling date: _____
Field blank type: (circle one) Field Blank / Trip Blank/ Atmospheric Blank/ Ambient Blank
Rinsate / Equipment Rinsate / Equipment Blank / Source Blank / Other:

Associated Samples: _____

Compound	Blank ID	Blank ID	Sample Identification							
CRQL										

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

LDC #: 26407R40

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 20199	PETN	121 (80-129)	125 (80-129)	( )	All water	J/Pdet (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407R4C

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 499.5/500.5 CF (std)	Recalculated 499.5/500.5 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	6/23/11	Nitrobenzene (chrompack)	2.17×10^2	2.17×10^2	2.07×10^2	2.07×10^2	4.6	4.6
			2,4,6-TNT (Capcell)	2.04×10^2	2.04×10^2	1.99×10^2	1.99×10^2	3.1	3.1
				1.85×10^2	1.85×10^2	1.78×10^2	1.78×10^2	4.6	4.6
2				2.00×10^2	2.00×10^2	1.85×10^2	1.85×10^2	12.2	12.2
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 #: 26407R4(1)
SDG #: per Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
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 20:28	7/21/11	Nitrobenzene chrompack	499.50	525.41	525.41	5.2	5.2
			2,4,6-TNT	500.50	528.66	528.66	5.6	5.6
2	ccv 20:01	7/27/11	↓	↓	517.31	517.31	3.6	3.6
			↓	↓	547.79	547.79	9.4	9.4
3	ccv 4:30	7/28/11	↓	999.00	1012.05	1012.05	1.3	1.3
			↓	1001.00	1100.26	1100.26	9.9	9.9
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 #: 26407R4C
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
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 20:28	7/21/11	Nitrobenzene chrompack	499.50	512.55	512.55	2.6	2.6
			2,4,6-TNT	500.50	515.14	515.14	2.9	2.9
2	CCV 20:01	7/27/11	↓	~~499.50~~ ~~521.00~~	521.00	521.00	4.3	4.3
			↓	500.50	513.68	513.68	2.6	2.6
3	CCV 4:30	7/28/11	↓	999.00	1077.38	1077.38	7.8	7.8
			↓	1001.00	1026.21	1026.21	2.5	2.5
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 #: [illegible]

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	Percent Recovery	Percent Difference
				Reported	Recalculated	
2- Nitro- m-xylene	chrompack	2000	2612.5992	131	131	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 #: [illegible]
SDG #: [illegible]

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 SA = Spike added SC = Sample concentration

RPD =(((SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 9 + 10

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)	2000	2000	ND	1802.04	1820.66	90	90	91	91	1	1
2,4,6-Trinitrotoluene (8330)	1999.2	1999.2	↓	2162.14	2207.99	108	108	110	110	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 #: 26407R4C
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 1
Reviewer: FO
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 = | 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 / 8021L

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)	2000	NA	1921.09	NA	96					
2,4,6-Trinitrotoluene (8330)	1999.2	NA	2284.85	↓	114					

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 #: 26407R4C
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. #7 Compound Name RDX

Concentration = $\frac{4621\ (10)}{(9.75 \times 10^{1})(500)}$

$= 0.95$ ug /L

#	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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Terphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5MS
SL-300-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 21 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-281-SA6-SS-0.0-0.5	n-Triacontane-d62	1 (50-150)	All TCL compounds	J (all detects) R (all non-detects)	P
SL-300-SA6-SS-0.0-0.5	n-Triacontane-d62	26 (50-150)	All TCL compounds	J (all detects) UJ (all non-detects)	A
SL-035-SA6-SS-0.0-0.5	n-Triacontane-d62	46 (50-150)	All TCL compounds	J (all detects) UJ (all non-detects)	P

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-300-SA6-SS-0.0-0.5MS/MSD (SL-300-SA6-SS-0.0-0.5)	m-Terphenyl o-Terphenyl p-Terphenyl	31 (75-125) 36 (75-125) 34 (75-125)	56 (75-125) 64 (75-125) 60 (75-125)	57 (≤20) 57 (≤20) 57 (≤20)	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) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-281-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) R (all non-detects)	P	Surrogate spikes (%R) (S)
DE199	SL-300-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	A	Surrogate spikes (%R) (S)
DE199	SL-035-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (S)
DE199	SL-300-SA6-SS-0.0-0.5	m-Terphenyl o-Terphenyl p-Terphenyl	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R41 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11

SDG #: DE199 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: EJ

2nd Reviewer:

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: 7/13/11
II	Initial calibration	A	%D RSD ≤20
III.	Calibration verification/ICV	A	ICV/CCV ≤20
IV.	Blanks	A	
V	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 19

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	SL-280-SA6-SS-0.0-0.5	11	SL-279-SA6-SS-0.0-0.5	21 1	PBLK17201	31	
2 1	SL-281-SA6-SS-0.0-0.5	12	SL-072-SA6-SB-4.0-5.0	22 2	PBLK29202	32	
3 2	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-9.0-10.0	23 3	PBLK15197	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-116-SA6-SB-2.5-3.5	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-118-SA6-SB-4.0-5.0	25	#3MS	35	
6	SL-047-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-10.5-11.5	26	#3MSD	36	
7	SL-059-SA6-SS-0.0-0.5	17	SL-083-SA6-SB-4.0-5.0	27		37	
8	SL-066-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-9.0-10.0	28		38	
9	SL-067-SA6-SS-0.0-0.5	19 3	EB-SA6-SB-071311 W	29		39	
10	SL-278-SA6-SS-0.0-0.5	20	SL-046-SA6-SS-0.0-0.5	30		40	

Notes:

.DC #: 26407R41
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FJ
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 #: 26467R4 1
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 #: 26407R41

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	MS	J	1 (50-150)	J/R/P (S)
				( )	
	3	↓	↓	26 (↓)	J/UJ/P (S)
				( )	
				( )	
	5	↓	↓	46 (↓)	J/UJ/P (S)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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-d62	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 #: 26407R4 /

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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 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
	25 + 26	m-Terphenyl	31 (75-125)	56 (75-125)	57 (20)	3	J/UJ/A (Q)
		o-Terphenyl	36 (↓)	64 (↓)	57 (↓)	↓	↓ ↓
		P-Terphenyl	34 (↓)	60 (↓)	57 (↓)	↓	↓ ↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407R4 1
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
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 (17.74/std)	Recalculated CF (17.74/std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/20/11	o-Terphenyl	2.07×10^4	2.07×10^4	1.99×10^4	1.79×10^4	2.5	2.5
2	ICAL	7/22/11	↓						
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 #: 26407R41
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 20:10	7/20/11	o-Terphenyl	35.48	34.65	34.65	2.4	2.4
	ccv 22:16	7/21/11	↓	↓	32.71	32.71	7.8	7.8
2								
	ccv 13:06	7/22/11	↓	↓	34.24	34.24	3.5	3.5
3	ccv 22:07	7/22/11	↓	↓	34.41	34.41	3.0	3.0
	ccv 5:33	7/23/11	↓	↓	34.05	34.05	4.0	4.0
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 #: 26177 (1)
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-Tricontane-d62	NS	0.3335	0.273439	82	82	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ
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: 25 + 26

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)											
m-Terphenyl	1.65	1.65	ND	0.51	0.92	31	31	56	56	57	57

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 #:_____
SDG #: pu covers

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 = | 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 SOIL - LCS1720 /

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	1.69	NA	1.38	NA	84	84	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 #: 26407R4/
SDG #: all zones

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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5MS
SL-281-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 22 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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
EB-SA6-SB-071311	All TCL compounds	8	7	J (all detects) UJ (all non-detects)	P

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.

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.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No alcohol contaminants were found.

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	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-030-SA6-SS-0.0-0.5	Acetone	149 (42-138)	All TCL compounds	J (all detects)	A

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	EB-SA6-SB-071311	All TCL compounds	J (all detects) UJ (all non-detects)	P	Technical holding time (H)
DE199	SL-030-SA6-SS-0.0-0.5	All TCL compounds	J (all detects)	A	Surrogate spikes (%R) (S)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R43 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 2
Laboratory: Lancaster Laboratories Reviewer: EJ
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	SW	Sampling dates: 7/13/11
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/RSV	A	RRF / CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS 1P
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB 2 #20

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-280-SA6-SS-0.0-0.5 S	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31 1	PBLK30196
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	#2 MS	32 2	PBLK27201
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	#2 MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25		35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26		36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27		37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20 2	EB-SA6-SB-071311 W	30		40	

Notes:

LDC #: 26407R43
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: PT
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?	✓	NA		
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 #: 26407R43
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 #: 26467R43

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD: GC HPLC

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
20	W	NO	7/13/11		7/21/11	8	J/UJ/P(H
					H.T. = 7 days		

TECHNICAL HOLDING TIME CRITERIA

VOLATILES:
- Water unpreserved: Aromatic within 7 days, non-aromatic within 14 days of sample collection.
- Water preserved: Both within 14 days of sample collection.
- Soils: Both within 14 days of sample collection.

EXTRACTABLES:
- Water: Extracted within 7 days, analyzed within 40 days.
- Soil: Extracted within 14 days, analyzed within 40 days.

LDC #: 26407R43

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	Acetone	149 (42-138)	J/A det (S)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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 #: 26407R43
SDG #: [illegible]

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 (5660 std)	Recalculated (5660 std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	IM27187	7/6/11	Methanol	1.35×10^{0}	1.35×10^{0}	1.40×10^{0}	1.40×10^{0}	8.5	8.5
2	IM27199A	7/18/11	↓	9.26×10^{0}	9.26×10^{0}	9.30×10^{0}	9.30×10^{0}	1.4	1.4
3	IM27200A	7/19/11	↓	9.49×10^{0}	9.49×10^{0}	9.48×10^{0}	9.42×10^{0}	2.5	2.5
4	IM27201	7/20/11	↓	6.0×10^{-1}	6.0×10^{-1}	6.37×10^{-1}	6.37×10^{-1}	8.2	8.2

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.

INICIAL ISB

LDC #: 26407R43
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: EJ
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 (5mM std)	Recalculated CF (5mM std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL IM27208A	7/27/11	Methanol	6.65×10^{6}	6.65×10^{6}	6.43×10^{6}	6.43×10^{6}	2.6	2.6
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 #: 26407R43
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 20:10	7/16/11	Methanol	10000.00	9385.57	9385.57	6.1	6.1
	(IM27187)							
	CCV 5:27	7/21/11	Methanol	10000.00	9427.34	9427.34	5.7	5.7
2	(IM27201)							
3	CCV 19:00	7/20/11	Methanol	5000.00	4651.58	4657.58	7.0	7.0
	(IM27201)							
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 #: [illegible]
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 Reported	Percent Recovery Recalculated	Percent Difference
Acetone	NS	2500	2798.6/42	112	112	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: [illegible]
Reviewer: [illegible]
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 SA = Spike added SC = Sample concentration

RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike MSD = Matrix spike duplicate

MS/MSD samples: 22 & 23

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	2110.46	2267.05	84	84	91	91	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 #: 26407R43
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FD
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 30194

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)										
Methanol	250 U	NA	2182.4	NA	87	87	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 #: 26467R43
SDG #: pu prover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: F
2nd Reviewer:

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. 18 Compound Name Methanol

Concentration = $\frac{(684)(5)}{(1.40 \times 10^{1})(10)(0.937)(1000)}$

= 260 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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-040-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
SL-279-SA6-SS-0.0-0.5
SL-072-SA6-SB-4.0-5.0
SL-072-SA6-SB-9.0-10.0
SL-116-SA6-SB-2.5-3.5
SL-118-SA6-SB-4.0-5.0
SL-118-SA6-SB-10.5-11.5
SL-083-SA6-SB-4.0-5.0
SL-083-SA6-SB-9.0-10.0
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5
SL-280-SA6-SS-0.0-0.5MS
SL-280-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 22 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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All 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.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No glycol contaminants were found.

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-280-SA6-SS-0.0-0.5MS/MSD (SL-280-SA6-SS-0.0-0.5)	Ethylene glycol Propylene glycol Diethylene glycol	49 (63-107) 57 (63-107) 22 (59-109)	- - 30 (59-109)	34 (≤20) 33 (≤20) 31 (≤20)	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. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5	Ethylene glycol Propylene glycol Diethylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-4.0-5.0 SL-118-SA6-SB-10.5-11.5 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R45 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: F
2nd Reviewer: A

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: 7/13/11
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	SW	
VII.	Laboratory control samples	A	LCS/D
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	EB = 20

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-280-SA6-SS-0.0-0.5 S	11	SL-278-SA6-SS-0.0-0.5	21	SL-046-SA6-SS-0.0-0.5	31	PBLK03196
2	SL-281-SA6-SS-0.0-0.5	12	SL-279-SA6-SS-0.0-0.5	22	#/MS	32	PBLK01199
3	SL-300-SA6-SS-0.0-0.5	13	SL-072-SA6-SB-4.0-5.0	23	#/MSD	33	
4	SL-030-SA6-SS-0.0-0.5	14	SL-072-SA6-SB-9.0-10.0	24		34	
5	SL-035-SA6-SS-0.0-0.5	15	SL-116-SA6-SB-2.5-3.5	25		35	
6	SL-040-SA6-SS-0.0-0.5	16	SL-118-SA6-SB-4.0-5.0	26		36	
7	SL-047-SA6-SS-0.0-0.5	17	SL-118-SA6-SB-10.5-11.5	27		37	
8	SL-059-SA6-SS-0.0-0.5	18	SL-083-SA6-SB-4.0-5.0	28		38	
9	SL-066-SA6-SS-0.0-0.5	19	SL-083-SA6-SB-9.0-10.0	29		39	
10	SL-067-SA6-SS-0.0-0.5	20	EB-SA6-SB-071311 W	30		40	

Notes: _____

LDC #: 26407R45
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 #: 26407 R45
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 #: 26407R45

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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 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
	22+23	Ethylene glycol	49 (63-107)	( )	34 (20)	#1	J/UJ/A (2)
		Propylene glycol	57 (↓)	( )	33 (20)	↓	↓
		Diethylene glycol	22 (59-109)	30 (59-109)	31 (20)	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407J5
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

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 (225.8262 std)	Recalculated CF (225.8262 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	GLGW192A	7/11/11	Propylene Glycol	5.41×10^2	5.41×10^2	5.43×10^2	5.43×10^2	1.5	1.5
2	GLFS194A	7/13/11	↓	7.60×10^2	7.60×10^2	7.67×10^2	7.67×10^2	2.4	2.4
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.

INICIO ISB

LDC #: 26407R4S
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	ccv 11:01	7/18/11	Propylene Glycol	112.91	113.23	113.23	0.3	0.3
	ccv 13:15	7/15/11	↓	105.36	108.67	108.67	3.1	3.1
2								
	ccv 16:01	↓	↓	105.36	107.18	107.18	1.7	1.7
3	ccv 18:22	↓	↓	105.36	108.16	108.16	2.7	2.7
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 #: [illegible]

SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: ✓

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	192.7	182.25/194	94	94	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: KZ
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: 22423

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	192.77	193.77	ND	95.09	134.15	49	49	70	70	34	34

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 #: 26407/49
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 1 of 2
Reviewer: FO
2nd Reviewer:

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: LCS03196

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	192.77	NA	175.75	NA	91	91	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 #: 26407R4J
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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil/Water

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-280-SA6-SS-0.0-0.5
SL-281-SA6-SS-0.0-0.5
SL-300-SA6-SS-0.0-0.5
SL-030-SA6-SS-0.0-0.5
SL-035-SA6-SS-0.0-0.5
SL-047-SA6-SS-0.0-0.5
SL-066-SA6-SS-0.0-0.5
SL-067-SA6-SS-0.0-0.5
SL-278-SA6-SS-0.0-0.5
EB-SA6-SB-071311
SL-046-SA6-SS-0.0-0.5

Introduction

This data review covers 10 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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

Sample EB-SA6-SB-071311 was identified as an equipment blank. No formaldehyde was found.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5 SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-047-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 EB-SA6-SB-071311 SL-046-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R71 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 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: 9/13/11
II	Initial calibration	A	%D ≤20
III.	Calibration verification/~~ICV~~	A	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/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	N	
XIII.	Field blanks	ND	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-280-SA6-SS-0.0-0.5 S	11	SL-046-SA6-SS-0.0-0.5	21	PBLK07197	31	
2	SL-281-SA6-SS-0.0-0.5	12		22	PBLK03195	32	
3	SL-300-SA6-SS-0.0-0.5	13		23		33	
4	SL-030-SA6-SS-0.0-0.5	14		24		34	
5	SL-035-SA6-SS-0.0-0.5	15		25		35	
6	SL-047-SA6-SS-0.0-0.5	16		26		36	
7	SL-066-SA6-SS-0.0-0.5	17		27		37	
8	SL-067-SA6-SS-0.0-0.5	18		28		38	
9	SL-278-SA6-SS-0.0-0.5	19		29		39	
10	EB-SA6-SB-071311 W	20		30		40	

Notes:

.DC #: 26407R71
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: RT
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 #: 26407R71
SDG #: per cover

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.	✓	NA	NA	
Target compounds were detected in the field blanks.		✓		

LDC #: 26407R71
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 2002 CF (std)	Recalculated 2002 CF (std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	IF4196	7/15/11	Formaldehyde	6.66 x10^1	6.66x10^1	6.42 x10^1	6.42 x10^1	3.1	3.1
2	IF4199	7/18/11	"	6.43x10^1	6.43x10^1	6.46 x10^1	6.46 x10^1	4.5	4.5
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 #: 26407R71
SDG #: pw 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 17:53	7/15/11	Formaldehyde	2002.00	2056.59	2056.59	2.7	2.7
2	ccv 23:43	7/18/11	↓	2002.00	1959.82	1959.82	2.1	2.1
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 #:

SDG #: see cover

METHOD: GC HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer:

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	1950	3625.709/2	93	93	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 #: 26407F11
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
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; SC = Concentration; LCS = Laboratory control sample percent recovery; LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS07197

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	4958.45	NA	99	99	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 #: 26407R11
SDG #: 4u0 gone

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: 5
2nd Reviewer: A

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 Formaldehyde

Concentration = $\frac{(43900)(20)}{(6.46 \times 10^{1})(20)(0.973)}$

= 698 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: July 13, 2011

LDC Report Date: October 24, 2011

Matrix: Soil

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE199

Sample Identification

SL-040-SA6-SS-0.0-0.5
SL-059-SA6-SS-0.0-0.5
SL-116-SA6-SB-2.5-3.5

Introduction

This data review covers 3 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE199	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 DE199

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE199	SL-040-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-116-SA6-SB-2.5-3.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE199

No Sample Data Qualified in this SDG

LDC #: 26407R87 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/24/11
SDG #: DE199 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EF
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: 7/13/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	r^2
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 15/50 LODY ≤ 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/RL/LOQ/LODs	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-040-SA6-SS-0.0-0.5	11	PBLK22213	21		31	
2	SL-059-SA6-SS-0.0-0.5	12		22		32	
3	SL-116-SA6-SB-2.5-3.5	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 #: 26407R87

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

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 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?	✓			
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? 15/52	✓			
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?	✓			

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?	✓			
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 from 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 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.			✓	

LDC # 26407R87
SDG# see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: Method 6850

Parameter: perchlorate

Date	Column	Compound	y	x	
08/08/2011	LCMS	perchlorate	0.035076	0.040	
			0.078526	0.100	
			0.168897	0.200	
			0.348140	0.400	
			0.903796	1.000	
			2.494629	2.500	

Regression Output:		Regression Output:	Reported	
Constant		-0.03676		
Std Err of Y Est		0.03869		
R Squared		0.99867		0.99673
No. of Observations		6.00000		
Degrees of Freedom		4.00000		
X Coefficient(s)	1.002E+000	0.12		
Std Err of Coef.	0.018309	0.02		

LDC #: 26407R87

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
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	MS_1010	8/3/11	~~Phenol (1st internal standard)~~ Perchlorate	4.0	3.94	3.94	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			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 #: 26407R8/

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT
2nd Reviewer: [signature]

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 - 22213

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	114	NA	114	114	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 #: 26407R87

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_t	=	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. = ( )( )( )( )( ) / ( )( )( )( )( )

ND

=

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DE200

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Jul-2011	TB-071411	6345456	TB	5030B	8015M	III
14-Jul-2011	TB-071411	6345456	TB	5030B	8260B	III
14-Jul-2011	TB-071411	6345456	TB	5030B	8260B SIM	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3050B	6010B	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3050B	6020	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3060A	7199	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8015B	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8015M	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8081A	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8082	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8151A	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8270C	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	3550B	8270C SIM	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	METHOD	300.0	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	METHOD	314.0	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	METHOD	7471A	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	METHOD	8015B	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345438	N	METHOD	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3050B	6010B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3050B	6020	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3060A	7199	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3550B	8015B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3550B	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3550B	8082	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	3550B	8270C	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	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
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	5035	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	5035	8260B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	5035	8260B SIM	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	METHOD	300.0	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	METHOD	314.0	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	METHOD	7471A	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	METHOD	8015B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345448	N	METHOD	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3050B	6010B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3050B	6020	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3060A	7199	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3550B	8015B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3550B	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3550B	8082	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3550B	8270C	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	3550B	8270C SIM	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	5035	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	5035	8260B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	5035	8260B SIM	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	METHOD	300.0	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	METHOD	314.0	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	METHOD	7471A	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	METHOD	8015B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345449	MS	METHOD	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	3050B	6010B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	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-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	3550B	8015B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	3550B	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	3550B	8082	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	3550B	8270C	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	3550B	8270C SIM	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	5035	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	5035	8260B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	5035	8260B SIM	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	METHOD	7471A	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	METHOD	8015B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345450	MSD	METHOD	8015M	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0DUP	6345451	DUP	3050B	6010B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0DUP	6345451	DUP	3050B	6020	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0DUP	6345451	DUP	3060A	7199	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0DUP	6345451	DUP	METHOD	300.0	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0DUP	6345451	DUP	METHOD	314.0	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0DUP	6345451	DUP	METHOD	7471A	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3050B	6010B	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3050B	6020	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3060A	7199	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3550B	8015B	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3550B	8015M	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3550B	8082	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3550B	8270C	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	3550B	8270C SIM	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	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
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	5035	8260B	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	5035	8260B SIM	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	METHOD	300.0	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	METHOD	314.0	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	METHOD	7471A	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	METHOD	8015B	III
14-Jul-2011	DUP02-SA6-QC-071411	6345455	FD	METHOD	8015M	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3050B	6010B	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3050B	6020	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3060A	7199	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8015B	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8015M	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8081A	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8082	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8151A	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8270C	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	3550B	8270C SIM	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	METHOD	300.0	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	METHOD	314.0	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	METHOD	7471A	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	METHOD	8015B	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345437	N	METHOD	8015M	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3050B	6010B	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3050B	6020	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3060A	7199	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	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
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3550B	8015M	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3550B	8082	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3550B	8270C	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	3550B	8270C SIM	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	5035	8015M	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	METHOD	300.0	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	METHOD	314.0	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	METHOD	7471A	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	METHOD	8015B	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345452	N	METHOD	8015M	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3050B	6010B	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3050B	6020	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3060A	7199	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3546	1625C	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8015B	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8015M	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8081A	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8082	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8151A	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8270C	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	3550B	8270C SIM	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	8330	8330A	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	METHOD	300.0	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	METHOD	314.0	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	METHOD	7471A	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	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
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	METHOD	8015M	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	METHOD	8315A	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345442	N	METHOD	9012B	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3050B	6010B	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3050B	6020	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3060A	7199	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3546	1625C	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8015B	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8015M	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8081A	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8082	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8151A	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8270C	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	3550B	8270C SIM	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	8330	8330A	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	300.0	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	314.0	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	7471A	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	8015B	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	8015M	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	8315A	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345441	N	METHOD	9012B	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3050B	6010B	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3050B	6020	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3060A	7199	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	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
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8015B	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8015M	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8081A	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8082	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8151A	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8270C	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	3550B	8270C SIM	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	8330	8330A	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	300.0	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	314.0	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	7471A	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	8015B	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	8015M	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	8315A	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345440	N	METHOD	9012B	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3050B	6010B	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3050B	6020	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3060A	7199	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3546	1625C	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3550B	8015B	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3550B	8015M	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3550B	8081A	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3550B	8082	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3550B	8151A	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	3550B	8270C	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	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
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	8330	8330A	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	300.0	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	314.0	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	7471A	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	8015B	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	8015M	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	8315A	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345439	N	METHOD	9012B	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3050B	6010B	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3050B	6020	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3060A	7199	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3546	1625C	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8015B	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8015M	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8081A	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8082	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8151A	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8270C	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	3550B	8270C SIM	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	8330	8330A	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	METHOD	300.0	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	METHOD	314.0	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	METHOD	7471A	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	METHOD	8015B	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	METHOD	8015M	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	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
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345443	N	METHOD	9012B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3050B	6010B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3050B	6020	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3060A	7199	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3550B	8015B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3550B	8015M	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3550B	8082	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3550B	8270C	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	3550B	8270C SIM	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	5035	8015M	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	5035	8260B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	5035	8260B SIM	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	METHOD	300.0	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	METHOD	314.0	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	METHOD	7471A	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	METHOD	8015B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345453	N	METHOD	8015M	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3050B	6010B	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3050B	6020	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3060A	7199	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3550B	8015B	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3550B	8015M	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3550B	8082	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3550B	8270C	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	3550B	8270C SIM	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	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
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	METHOD	300.0	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	METHOD	314.0	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	METHOD	7471A	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	METHOD	8015B	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345454	N	METHOD	8015M	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3050B	6010B	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3050B	6020	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3060A	7199	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3546	1625C	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8015B	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8015M	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8081A	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8082	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8151A	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8270C	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	3550B	8270C SIM	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	8330	8330A	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	300.0	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	314.0	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	7471A	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	8015B	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	8015M	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	8315A	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345444	N	METHOD	9012B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3050B	6010B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	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-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3060A	7199	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3546	1625C	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8015B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8015M	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8081A	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8082	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8151A	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8270C	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	3550B	8270C SIM	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	8330	8330A	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	300.0	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	314.0	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	7471A	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	8015B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	8015M	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	8315A	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345445	N	METHOD	9012B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5DUP	P345445D272115A	DUP	METHOD	9012B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5MS	P345445R272116A	MS	METHOD	9012B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3050B	6010B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3050B	6020	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3060A	7199	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3546	1625C	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3550B	8015B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3550B	8015M	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	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-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3550B	8082	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3550B	8151A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3550B	8270C	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	3550B	8270C SIM	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	8330	8330A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	300.0	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	314.0	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	7471A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	8015B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	8015M	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	8315A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345434	N	METHOD	9012B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5DUP	P345434D270303A	DUP	METHOD	300.0	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5DUP	P345434D270355A	DUP	METHOD	314.0	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MSD	P345434M240103A	MSD	3550B	8081A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MSD	P345434M240138A	MSD	METHOD	8315A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MSD	P345434M241448A	MSD	3550B	8151A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MS	P345434R240049A	MS	3550B	8081A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MS	P345434R240119A	MS	METHOD	8315A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MS	P345434R241420A	MS	3550B	8151A	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MS	P345434R270318A	MS	METHOD	300.0	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5MS	P345434R270418A	MS	METHOD	314.0	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3050B	6010B	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3050B	6020	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3060A	7199	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	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
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8015B	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8015M	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8081A	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8082	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8151A	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8270C	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	3550B	8270C SIM	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	8330	8330A	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	300.0	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	314.0	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	7471A	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	8015B	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	8015M	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	8315A	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345436	N	METHOD	9012B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3050B	6010B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3050B	6020	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3060A	7199	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3550B	8015B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3550B	8015M	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3550B	8082	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3550B	8270C	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	3550B	8270C SIM	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	5035	8015M	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	5035	8260B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	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
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	METHOD	300.0	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	METHOD	314.0	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	METHOD	7471A	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	METHOD	8015B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345446	N	METHOD	8015M	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3050B	6010B	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3050B	6020	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3060A	7199	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3550B	8015B	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3550B	8015M	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3550B	8082	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3550B	8270C	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	3550B	8270C SIM	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	5035	8015M	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	METHOD	300.0	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	METHOD	314.0	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	METHOD	7471A	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	METHOD	8015B	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345447	N	METHOD	8015M	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3050B	6010B	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3050B	6020	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3060A	7199	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3546	1625C	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3550B	8015B	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3550B	8015M	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	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-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3550B	8082	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3550B	8151A	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3550B	8270C	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	3550B	8270C SIM	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	8330	8330A	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	300.0	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	314.0	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	7471A	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	8015B	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	8015M	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	8315A	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345435	N	METHOD	9012B	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5MSD	P345435M261711	MSD	3546	1625C	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5MS	P345435R261652	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.81	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.81	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 3:46:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-049-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 2:26:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:27:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:52:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-054-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q
Nitrate-NO3	0.98	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	J	0.84	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	32900		13.6	MDL	104	PQL	mg/Kg	J	FD

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.29	J	0.375	MDL	5.21	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP02-SA6-QC-071411 ***Collected:*** 7/14/2011 8:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	8060		2.60	MDL	20.8	PQL	mg/Kg	J	FD
LITHIUM	17.6		0.65	MDL	2.1	PQL	mg/Kg	J	FD
MANGANESE	266		0.0375	MDL	0.521	PQL	mg/Kg	J	Q
TIN	2.73	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.97	J	0.479	MDL	5.21	PQL	mg/Kg	U	B

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.23	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
MANGANESE	258		0.0367	MDL	0.510	PQL	mg/Kg	J	Q
SODIUM	52.9	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.34	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.52	J	0.469	MDL	5.10	PQL	mg/Kg	U	B

Sample ID: SL-048-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 3:46:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.99	J	0.356	MDL	4.95	PQL	mg/Kg	U	B
MANGANESE	294		0.0356	MDL	0.495	PQL	mg/Kg	J	Q
SODIUM	64.6	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.72	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	2.80	J	0.455	MDL	4.95	PQL	mg/Kg	U	B

Sample ID: SL-049-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 2:26:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.57	J	0.359	MDL	4.99	PQL	mg/Kg	J	Z
MANGANESE	296		0.0359	MDL	0.499	PQL	mg/Kg	J	Q
SODIUM	67.0	J	5.94	MDL	99.8	PQL	mg/Kg	J	Z
TIN	2.68	J	0.319	MDL	9.98	PQL	mg/Kg	U	B
Zirconium	0.670	J	0.459	MDL	4.99	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-050-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:27:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.73	J	0.356	MDL	4.94	PQL	mg/Kg	U	B
MANGANESE	228		0.0356	MDL	0.494	PQL	mg/Kg	J	Q
SODIUM	62.4	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
TIN	2.37	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.454	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.60	J	0.361	MDL	5.01	PQL	mg/Kg	J	Z
MANGANESE	247		0.0361	MDL	0.501	PQL	mg/Kg	J	Q
SODIUM	51.7	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.55	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.65	J	0.461	MDL	5.01	PQL	mg/Kg	U	B

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.87	J	0.354	MDL	4.91	PQL	mg/Kg	U	B
MANGANESE	245		0.0354	MDL	0.491	PQL	mg/Kg	J	Q
SODIUM	60.1	J	5.85	MDL	98.3	PQL	mg/Kg	J	Z
TIN	2.60	J	0.314	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	2.00	J	0.452	MDL	4.91	PQL	mg/Kg	U	B

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:52:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.79	J	0.362	MDL	5.03	PQL	mg/Kg	J	Z
MANGANESE	280		0.0362	MDL	0.503	PQL	mg/Kg	J	Q
SODIUM	69.3	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.34	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.96	J	0.462	MDL	5.03	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-054-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 9:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.80	J	0.362	MDL	5.03	PQL	mg/Kg	J	Z
MANGANESE	275		0.0362	MDL	0.503	PQL	mg/Kg	J	Q
SODIUM	61.5	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.73	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.05	J	0.463	MDL	5.03	PQL	mg/Kg	U	B

Sample ID: SL-055-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 8:53:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.94	J	0.362	MDL	5.03	PQL	mg/Kg	U	B
MANGANESE	285		0.0362	MDL	0.503	PQL	mg/Kg	J	Q
SODIUM	58.2	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.66	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.77	J	0.462	MDL	5.03	PQL	mg/Kg	U	B

Sample ID: SL-060-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 10:38:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.33	J	0.358	MDL	4.97	PQL	mg/Kg	J	Z
MANGANESE	272		0.0358	MDL	0.497	PQL	mg/Kg	J	Q
SODIUM	75.1	J	5.92	MDL	99.5	PQL	mg/Kg	J	Z
TIN	2.64	J	0.318	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	2.12	J	0.458	MDL	4.97	PQL	mg/Kg	U	B

Sample ID: SL-063-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 11:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.53	J	0.365	MDL	5.07	PQL	mg/Kg	J	Z
MANGANESE	764		0.0365	MDL	0.507	PQL	mg/Kg	J	Q
TIN	3.26	J	0.325	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.47	J	0.467	MDL	5.07	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-064-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.68	J	0.368	MDL	5.11	PQL	mg/Kg	J	Z
MANGANESE	288		0.0368	MDL	0.511	PQL	mg/Kg	J	Q
SODIUM	65.0	J	6.08	MDL	102	PQL	mg/Kg	J	Z
TIN	2.72	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.19	J	0.470	MDL	5.11	PQL	mg/Kg	U	B

Sample ID: SL-071-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.83	J	1.89	MDL	26.2	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	334		0.0377	MDL	0.524	PQL	mg/Kg	J	Q
TIN	3.00	J	0.336	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-071-SA6-SB-6.0-7.0 *Collected:* 7/14/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.45	J	0.385	MDL	5.35	PQL	mg/Kg	U	B
MANGANESE	286		0.0385	MDL	0.535	PQL	mg/Kg	J	Q
TIN	2.48	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.64	J	0.492	MDL	5.35	PQL	mg/Kg	U	B

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.14	J	0.376	MDL	5.22	PQL	mg/Kg	U	B
CALCIUM	4720		2.61	MDL	20.9	PQL	mg/Kg	J	FD
IRON	19500		2.72	MDL	20.9	PQL	mg/Kg	J	FD
LITHIUM	9.4		0.65	MDL	2.1	PQL	mg/Kg	J	FD
MANGANESE	164		0.0376	MDL	0.522	PQL	mg/Kg	J	Q
TIN	2.31	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.66	J	0.480	MDL	5.22	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-074-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	316		0.0387	MDL	0.537	PQL	mg/Kg	J	Q
TIN	3.42	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.73	J	0.494	MDL	5.37	PQL	mg/Kg	U	B

Sample ID: SL-088-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	298		0.0383	MDL	0.532	PQL	mg/Kg	J	Q
TIN	2.46	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.65	J	0.489	MDL	5.32	PQL	mg/Kg	U	B

Sample ID: SL-088-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.746	J	0.364	MDL	5.05	PQL	mg/Kg	U	B
MANGANESE	211		0.0364	MDL	0.505	PQL	mg/Kg	J	Q
TIN	2.74	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.48	J	0.465	MDL	5.05	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 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	0.129	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.733		0.0531	MDL	0.106	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP02-SA6-QC-071411 ***Collected:*** 7/14/2011 8:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0786	MDL	0.212	PQL	mg/Kg	J	Q
ARSENIC	8.85		0.0850	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.580		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.209		0.0467	MDL	0.106	PQL	mg/Kg	J	Q, FD
CHROMIUM	14.2		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	10.4		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	14.3		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	9.86		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	11.2		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0414	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.192		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	45.1		0.0234	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***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	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.703		0.0500	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0740	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	4.59		0.0800	MDL	0.400	PQL	mg/Kg	J	Q
BERYLLIUM	0.596		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.229		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	16.0		0.120	MDL	0.400	PQL	mg/Kg	J	Q
COBALT	5.75		0.0200	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	9.11		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E
NICKEL	13.1		0.100	MDL	0.400	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-037-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 1:54:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0689	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.330		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	31.5		0.0220	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 3:46:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-048-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 3:46:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.910		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-048-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 3:46:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	6.40		0.0792	MDL	0.396	PQL	mg/Kg	J	Q
BERYLLIUM	0.660		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q, E
CADMIUM	0.578		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	19.9		0.119	MDL	0.396	PQL	mg/Kg	J	Q
COBALT	7.16		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q
COPPER	10.0		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, E
LEAD	14.4		0.0101	MDL	0.198	PQL	mg/Kg	J	Q, E
NICKEL	15.6		0.0990	MDL	0.396	PQL	mg/Kg	J	Q
SILVER	0.177		0.0141	MDL	0.0990	PQL	mg/Kg	J	Q
THALLIUM	0.338		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	36.6		0.0218	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 2:26:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.129		0.0435	MDL	0.0988	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.804		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	4.10		0.0790	MDL	0.395	PQL	mg/Kg	J	Q
BERYLLIUM	0.681		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q, E
CHROMIUM	13.7		0.119	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	5.40		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q
COPPER	8.51		0.0790	MDL	0.395	PQL	mg/Kg	J	Q, E
LEAD	9.41		0.0101	MDL	0.198	PQL	mg/Kg	J	Q, E
NICKEL	11.0		0.0988	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.0567	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q
THALLIUM	0.302		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	28.1		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:27:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-050-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:27:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.520		0.0504	MDL	0.101	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-050-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:27:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.111	J	0.0745	MDL	0.201	PQL	mg/Kg	J	Z, Q
ARSENIC	6.09		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
BERYLLIUM	0.506		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.137		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	14.1		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	4.65		0.0201	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	6.96		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	7.09		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	8.77		0.101	MDL	0.403	PQL	mg/Kg	J	Q
SILVER	0.0328	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.270		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	26.6		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***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	0.0581	MDL	0.401	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.723		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	6.45		0.0801	MDL	0.401	PQL	mg/Kg	J	Q
BERYLLIUM	0.571		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.154		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	15.8		0.120	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	5.24		0.0200	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	11.2		0.0801	MDL	0.401	PQL	mg/Kg	J	Q, E
LEAD	13.8		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E
NICKEL	11.0		0.100	MDL	0.401	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0469	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.316		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	29.8		0.0220	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.205	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.670		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.137	J	0.0742	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	9.25		0.0802	MDL	0.401	PQL	mg/Kg	J	Q
BERYLLIUM	0.773		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.139		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	20.9		0.120	MDL	0.401	PQL	mg/Kg	J	Q
COBALT	7.40		0.0200	MDL	0.100	PQL	mg/Kg	J	Q
COPPER	10.3		0.0802	MDL	0.401	PQL	mg/Kg	J	Q, E
LEAD	11.0		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E
NICKEL	14.1		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0921	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.367		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	39.4		0.0220	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.176	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, 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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.659		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.118	J	0.0744	MDL	0.201	PQL	mg/Kg	J	Z, Q
ARSENIC	6.55		0.0804	MDL	0.402	PQL	mg/Kg	J	Q
BERYLLIUM	0.648		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.124		0.0442	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	17.8		0.121	MDL	0.402	PQL	mg/Kg	J	Q
COBALT	5.93		0.0201	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	10.7		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, E
LEAD	9.42		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	12.1		0.101	MDL	0.402	PQL	mg/Kg	J	Q
SILVER	0.0442	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.312		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	34.3		0.0221	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.200	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.769		0.0498	MDL	0.0996	PQL	mg/Kg	J	Q

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0737	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	6.59		0.0797	MDL	0.399	PQL	mg/Kg	J	Q
BERYLLIUM	0.688		0.0159	MDL	0.0996	PQL	mg/Kg	J	Q, E
CADMIUM	0.222		0.0438	MDL	0.0996	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-054-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	18.1		0.120	MDL	0.399	PQL	mg/Kg	J	Q
COBALT	6.40		0.0199	MDL	0.0996	PQL	mg/Kg	J	Q
COPPER	10.6		0.0797	MDL	0.399	PQL	mg/Kg	J	Q, E
LEAD	14.6		0.0102	MDL	0.199	PQL	mg/Kg	J	Q, E
NICKEL	13.4		0.0996	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0434	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z, Q
THALLIUM	0.338		0.0299	MDL	0.0996	PQL	mg/Kg	J	Q
VANADIUM	36.2		0.0219	MDL	0.0996	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0566	MDL	0.390	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.600		0.0488	MDL	0.0976	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0722	U	0.0722	MDL	0.195	PQL	mg/Kg	UJ	Q
ARSENIC	5.82		0.0781	MDL	0.390	PQL	mg/Kg	J	Q
BERYLLIUM	0.539		0.0156	MDL	0.0976	PQL	mg/Kg	J	Q, E
CADMIUM	0.154		0.0430	MDL	0.0976	PQL	mg/Kg	J	Q
CHROMIUM	14.3		0.117	MDL	0.390	PQL	mg/Kg	J	Q
COBALT	5.16		0.0195	MDL	0.0976	PQL	mg/Kg	J	Q
COPPER	7.43		0.0781	MDL	0.390	PQL	mg/Kg	J	Q, E
LEAD	9.88		0.010	MDL	0.195	PQL	mg/Kg	J	Q, E
NICKEL	10.3		0.0976	MDL	0.390	PQL	mg/Kg	J	Q
SILVER	0.0395	J	0.0139	MDL	0.0976	PQL	mg/Kg	J	Z, Q
THALLIUM	0.278		0.0293	MDL	0.0976	PQL	mg/Kg	J	Q
VANADIUM	29.2		0.0215	MDL	0.0976	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *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	0.0594	MDL	0.410	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.871		0.0512	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.783		0.0758	MDL	0.205	PQL	mg/Kg	J	Q
ARSENIC	7.28		0.0820	MDL	0.410	PQL	mg/Kg	J	Q
BERYLLIUM	0.714		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.340		0.0451	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	21.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q
COBALT	6.98		0.0205	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	12.6		0.0820	MDL	0.410	PQL	mg/Kg	J	Q, E
LEAD	18.8		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, E
NICKEL	14.6		0.102	MDL	0.410	PQL	mg/Kg	J	Q
SILVER	0.0663	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.343		0.0307	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	41.8		0.0225	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	0.210	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	0.949		0.0507	MDL	0.101	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-063-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.510		0.0751	MDL	0.203	PQL	mg/Kg	J	Q
ARSENIC	6.10		0.0812	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.624		0.0162	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	1.15		0.0447	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	21.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	8.19		0.0203	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	25.3		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
LEAD	20.3		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	14.7		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.102		0.0144	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.272		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	39.0		0.0223	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:29:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0925	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-064-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:29:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.467		0.0496	MDL	0.0993	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:29:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.119	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	4.12		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.474		0.0159	MDL	0.0993	PQL	mg/Kg	J	Q, E
CADMIUM	0.246		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	14.7		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	4.97		0.0199	MDL	0.0993	PQL	mg/Kg	J	Q
COPPER	8.13		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
LEAD	10.4		0.0101	MDL	0.199	PQL	mg/Kg	J	Q, E
NICKEL	10.1		0.0993	MDL	0.397	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-064-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:29:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0742	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z, Q
THALLIUM	0.218		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q
VANADIUM	29.2		0.0218	MDL	0.0993	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 2:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.171		0.0466	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 2:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-071-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 2:35:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.67		0.0529	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.393		0.0783	MDL	0.212	PQL	mg/Kg	J	Q
ARSENIC	87.1		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
BERYLLIUM	0.674		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	19.3		0.127	MDL	0.424	PQL	mg/Kg	J	Q
COBALT	45.3		0.0212	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	20.7		0.0847	MDL	0.424	PQL	mg/Kg	J	Q, E
LEAD	9.77		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	14.1		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0527	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.240		0.0318	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	39.7		0.0233	MDL	0.106	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-071-SA6-SB-6.0-7.0 *Collected:* 7/14/2011 2:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-071-SA6-SB-6.0-7.0 *Collected:* 7/14/2011 2:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.10		0.0546	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA6-SB-6.0-7.0 *Collected:* 7/14/2011 2:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.282		0.0808	MDL	0.218	PQL	mg/Kg	J	Q
ARSENIC	12.0		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
BERYLLIUM	0.574		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.302		0.0480	MDL	0.109	PQL	mg/Kg	J	Q
CHROMIUM	20.2		0.131	MDL	0.437	PQL	mg/Kg	J	Q
COBALT	15.4		0.0218	MDL	0.109	PQL	mg/Kg	J	Q
COPPER	24.1		0.0873	MDL	0.437	PQL	mg/Kg	J	Q, E
LEAD	14.7		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	15.0		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0592	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.229		0.0328	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	49.9		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.172	J	0.0611	MDL	0.422	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.886		0.0527	MDL	0.105	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-074-SA6-SB-4.0-5.0 **Collected:** 7/14/2011 8:15:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.256		0.0780	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	6.29		0.0843	MDL	0.422	PQL	mg/Kg	J	Q
BERYLLIUM	1.08		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E, FD
CADMIUM	0.116		0.0464	MDL	0.105	PQL	mg/Kg	J	Q, FD
CHROMIUM	15.1		0.127	MDL	0.422	PQL	mg/Kg	J	Q
COBALT	7.09		0.0211	MDL	0.105	PQL	mg/Kg	J	Q
COPPER	12.1		0.0843	MDL	0.422	PQL	mg/Kg	J	Q, E
LEAD	8.68		0.0108	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	10.6		0.105	MDL	0.422	PQL	mg/Kg	J	Q
SILVER	0.0372	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.244		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	38.7		0.0232	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-074-SA6-SB-9.0-10.0 **Collected:** 7/14/2011 8:35:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-074-SA6-SB-9.0-10.0 **Collected:** 7/14/2011 8:35:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.31		0.0532	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-074-SA6-SB-9.0-10.0 **Collected:** 7/14/2011 8:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.280		0.0787	MDL	0.213	PQL	mg/Kg	J	Q
ARSENIC	16.5		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.556		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.425		0.0468	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	21.5		0.128	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	19.9		0.0213	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	22.7		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	16.9		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	15.0		0.106	MDL	0.425	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-074-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0542	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.237		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	53.8		0.0234	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-088-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 10:45:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-088-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 10:45:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.04		0.0532	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-088-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 10:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.460		0.0787	MDL	0.213	PQL	mg/Kg	J	Q
ARSENIC	11.2		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
BERYLLIUM	0.553		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.236		0.0468	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	16.9		0.128	MDL	0.425	PQL	mg/Kg	J	Q
COBALT	19.0		0.0213	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	19.8		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E
LEAD	10.3		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, E
NICKEL	12.4		0.106	MDL	0.425	PQL	mg/Kg	J	Q
SILVER	0.0357	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.205		0.0319	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	39.0		0.0234	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: SL-088-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 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	0.0779	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z, 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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-088-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 10:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.659		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-088-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 10:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.139	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.51		0.0816	MDL	0.408	PQL	mg/Kg	J	Q
BERYLLIUM	0.719		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0795	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.1		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	5.57		0.0204	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	8.06		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
LEAD	6.77		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	11.7		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0349	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.286		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.5		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-048-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 3:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.20	MDL	0.99	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.20	MDL	1.0	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-052-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 10:17:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-053-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 9:52:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-064-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 1:29:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-071-SA6-SB-4.0-5.0** ***Collected:*** **7/14/2011 2:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.75	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-071-SA6-SB-6.0-7.0** ***Collected:*** **7/14/2011 2:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-074-SA6-SB-4.0-5.0** ***Collected:*** **7/14/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-074-SA6-SB-9.0-10.0** ***Collected:*** **7/14/2011 8:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: DUP02-SA6-QC-071411 ***Collected:*** 7/14/2011 8:25:00 ***Analysis Type:*** RES ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	2.45		0.0365	MDL	0.519	PQL	mg/Kg	J	Q, E, E, FD

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-048-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 3:46:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0555	J	0.0066	MDL	0.0945	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-049-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 2:26:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0069	U	0.0069	MDL	0.0986	PQL	mg/Kg	UJ	E, E

Sample ID: SL-050-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:27:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0135	J	0.0068	MDL	0.0964	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0153	J	0.0070	MDL	0.0990	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0147	J	0.0070	MDL	0.0993	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:52:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0093	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z, Q, E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-054-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 9:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0202	J	0.0068	MDL	0.0968	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-055-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 8:53:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0128	J	0.0069	MDL	0.0987	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-060-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 10:38:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.213		0.0072	MDL	0.102	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-063-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 11:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.243		0.0068	MDL	0.0973	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-064-SA6-SS-0.0-0.5 **Collected:** 7/14/2011 1:29:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0699	J	0.0068	MDL	0.0971	PQL	mg/Kg	J	Z, Q, E, E

Sample ID: SL-071-SA6-SB-4.0-5.0 **Collected:** 7/14/2011 2:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.809		0.0074	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-071-SA6-SB-6.0-7.0 **Collected:** 7/14/2011 2:45:00 **Analysis Type:** RES **Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	5.07		0.0756	MDL	1.08	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-074-SA6-SB-4.0-5.0 **Collected:** 7/14/2011 8:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.647		0.0074	MDL	0.106	PQL	mg/Kg	J	Q, E, E, 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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-074-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 8:35:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	1.41		0.0383	MDL	0.544	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-088-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 10:45:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	1.75		0.0374	MDL	0.531	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-088-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	U	0.0073	MDL	0.104	PQL	mg/Kg	UJ	E, E

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	17.0	U	17.0	MDL	34.0	PQL	ng/Kg	UJ	H

Sample ID: SL-048-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 3:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	283		16.5	MDL	33.0	PQL	ng/Kg	U	B

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	703		16.5	MDL	33.0	PQL	ng/Kg	U	B

Sample ID: SL-052-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	616		168	MDL	335	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-053-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
N-NITROSODIMETHYLAMINE	432		16.8	MDL	33.5	PQL	ng/Kg	U	B

Sample ID: SL-054-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	714		167	MDL	334	PQL	ng/Kg	U	B

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2010		168	MDL	336	PQL	ng/Kg	U	B

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	736		169	MDL	337	PQL	ng/Kg	U	B

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	308	J	170	MDL	339	PQL	ng/Kg	U	B

Sample ID: SL-064-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:29:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	513		169	MDL	339	PQL	ng/Kg	U	B

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *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)	3.1	J	2.1	MDL	6.4	PQL	mg/Kg	J	Z, FD
EFH (C21-C30)	53		2.1	MDL	6.4	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP02-SA6-QC-071411 ***Collected:*** 7/14/2011 8:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	160		2.1	MDL	6.4	PQL	mg/Kg	J	FD

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.99	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.90	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-048-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 3:46:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.52	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-050-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:27:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.46	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.64	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	4.1	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
EFH (C8-C11)	0.53	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
EFH (C8-C11)	0.41	J	0.41	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.9	J	2.1	MDL	6.2	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:29:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.46	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.78	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.87	MDL	2.6	PQL	mg/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.4	U	5.4	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.4	U	5.4	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.4	U	5.4	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.86	U	0.86	MDL	2.6	PQL	mg/Kg	UJ	FD
EFH (C21-C30)	21		0.86	MDL	2.6	PQL	mg/Kg	J	FD
EFH (C30-C40)	61		0.86	MDL	2.6	PQL	mg/Kg	J	FD

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.45		0.067	MDL	0.35	PQL	ug/Kg	J	S
4,4'-DDT	0.68		0.067	MDL	0.35	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	8.9		0.82	MDL	3.5	PQL	ug/Kg	J	S
DELTA-BHC	0.20		0.037	MDL	0.17	PQL	ug/Kg	J	Q, S
TOXAPHENE	14		2.2	MDL	6.7	PQL	ug/Kg	J	S

Sample ID: SL-048-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 3:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.071	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.13	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.11	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
ENDRIN KETONE	0.10	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.039	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.13	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
4,4'-DDT	0.21	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-050-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.080	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-051-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.10	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-052-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:17:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.066	J	0.034	MDL	0.17	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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	0.14	U	0.14	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	0.35		0.067	MDL	0.35	PQL	ug/Kg	J	S, S
4,4'-DDT	0.60		0.067	MDL	0.35	PQL	ug/Kg	J	S, S
ALDRIN	0.067	U	0.067	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	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.81	U	0.81	MDL	3.5	PQL	ug/Kg	UJ	S
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.11	U	0.11	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	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	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.12	U	0.12	MDL	0.35	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.041	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.051	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:53:00 ***Analysis Type:*** REA-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.14	J	0.067	MDL	0.35	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
DELTA-BHC	0.039	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
DIELDRIN	0.085	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.22	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.062	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *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)	0.047	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
Chlordane	13		0.83	MDL	3.5	PQL	ug/Kg	J	S

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	250		18	MDL	91	PQL	ug/Kg	J	FD
Aroclor 5460	210		54	MDL	180	PQL	ug/Kg	J	FD

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.65	J	0.39	MDL	1.7	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-051-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.96	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-053-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	1.3	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	25	J	10	MDL	34	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	63		1.8	MDL	9.1	PQL	ug/Kg	J	FD
Aroclor 5460	85		5.4	MDL	18	PQL	ug/Kg	J	FD

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.1	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	Q

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.086	J	0.075	MDL	0.17	PQL	ug/Kg	J	Z
DICAMBA	0.68	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 Laboratory: LL

EDD Filename: DE200_v2. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: SL-052-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:17:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.091	J	0.083	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-053-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	490		77	MDL	250	PQL	ug/Kg	U	B

Sample ID: SL-054-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.47	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.10	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	4.7		0.64	MDL	1.7	PQL	ug/Kg	J	S

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

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	UJ	L
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Dimethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP02-SA6-QC-071411 ***Collected:*** 7/14/2011 8:25:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-037-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:54:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	17	MDL	340	PQL	ug/Kg	J	Z
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-048-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 3:46:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	33	U	33	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
CHRYSENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z, L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-049-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 2:26:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	17	MDL	340	PQL	ug/Kg	J	Z
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-050-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:27:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-051-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:07:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-055-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-060-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:38:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-063-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 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
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	35	U	35	MDL	170	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	350	PQL	ug/Kg	J	Z
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
Dimethylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: **SL-064-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 1:29:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	34	U	34	MDL	170	PQL	ug/Kg	UJ	L
CARBAZOLE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: **SL-071-SA6-SB-4.0-5.0** ***Collected:*** **7/14/2011 2:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	UJ	L
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Dimethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-071-SA6-SB-6.0-7.0 ***Collected:*** 7/14/2011 2:45:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	54	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	18	MDL	180	PQL	ug/Kg	J	Z
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Dimethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	44	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	36	J	18	MDL	180	PQL	ug/Kg	J	Z, L
PYRENE	71	J	18	MDL	180	PQL	ug/Kg	J	Z, L

Sample ID: SL-074-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	UJ	L
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-074-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 8:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	37	U	37	MDL	180	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	33	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	41	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	35	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-074-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 8:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
CHRYSENE	34	J	18	MDL	180	PQL	ug/Kg	J	Z, L
Dimethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
FLUORANTHENE	51	J	18	MDL	180	PQL	ug/Kg	J	Z, L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	45	J	18	MDL	180	PQL	ug/Kg	J	Z, L

Sample ID: SL-088-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 10:45:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Dimethylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
Di-n-butylphthalate	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	21	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-088-SA6-SB-9.0-10.0 ***Collected:*** 7/14/2011 10:55:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
3,5-Dimethylphenol	35	U	35	MDL	180	PQL	ug/Kg	UJ	L
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L
HEXACHLOROBENZENE	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.4	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	21		3.6	MDL	8.9	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	20		3.6	MDL	8.9	PQL	ug/Kg	J	FD
BENZO(B)FLUORANTHENE	32		3.6	MDL	8.9	PQL	ug/Kg	J	FD
BENZO(G,H,I)PERYLENE	7.0	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	12		3.6	MDL	8.9	PQL	ug/Kg	J	FD
CHRYSENE	19		1.8	MDL	8.9	PQL	ug/Kg	J	FD
FLUORANTHENE	33		3.6	MDL	8.9	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	6.3	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	3.8	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	8.5	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z, FD
PYRENE	22		3.6	MDL	8.9	PQL	ug/Kg	J	FD

Sample ID: SL-037-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.98	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.84	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.85	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.99	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	9.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-048-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 3:46:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	6.1	J	5.9	MDL	18	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-049-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 2:26:00** ***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	0.68	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.91	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.82	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.0	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.6	J	6.0	MDL	18	PQL	ug/Kg	J	Z
FLUORENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.97	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-050-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 8:27:00** ***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)ANTHRACENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.94	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.69	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: **SL-051-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 8:07:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	0.74	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.54	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.8	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: **SL-052-SA6-SS-0.0-0.5** ***Collected:*** **7/14/2011 10:17:00** ***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(A)PYRENE	0.74	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.1	MDL	18	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-052-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:17:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	6.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-053-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
CHRYSENE	2.4	J	1.7	MDL	8.3	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 9:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.84	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	16	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.3	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.4	J	6.0	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.90	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
BENZO(K)FLUORANTHENE	0.72	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:38:00 ***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	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.71	J	0.67	MDL	1.7	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: DE200 **Laboratory:** LL

EDD Filename: DE200_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-063-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
BENZO(A)PYRENE	3.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	6.1	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	7.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
CHRYSENE	6.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
FLUORANTHENE	6.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
PYRENE	4.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-064-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:29:00 ***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	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	9.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.81	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-071-SA6-SB-6.0-7.0 ***Collected:*** 7/14/2011 2:45:00 ***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	9.5	J	3.6	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	7.3	J	7.3	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 ***Collected:*** 7/14/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	2.3		0.71	MDL	1.8	PQL	ug/Kg	J	Q, Q, FD
BENZO(A)PYRENE	3.5		0.71	MDL	1.8	PQL	ug/Kg	J	Q, FD
BENZO(B)FLUORANTHENE	2.3		0.71	MDL	1.8	PQL	ug/Kg	J	Q, FD
BENZO(G,H,I)PERYLENE	0.82	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, Q, FD
BENZO(K)FLUORANTHENE	4.7		0.71	MDL	1.8	PQL	ug/Kg	J	FD
Butylbenzylphthalate	7.9	J	6.4	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	3.0		0.35	MDL	1.8	PQL	ug/Kg	J	Q, Q, FD
FLUORANTHENE	3.6		0.71	MDL	1.8	PQL	ug/Kg	J	Q, FD
INDENO(1,2,3-CD)PYRENE	0.74	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, Q, Q, FD
NAPHTHALENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	2.6		0.71	MDL	1.8	PQL	ug/Kg	J	Q, Q, FD

Sample ID: SL-074-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	5.7	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
ANTHRACENE	5.0	J	1.8	MDL	9.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	46	J	32	MDL	97	PQL	ug/Kg	J	Z

Sample ID: SL-088-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 10:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.9	J	1.8	MDL	9.0	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.0	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z
PHENANTHRENE	5.7	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	800	J	600	MDL	1500	PQL	ug/Kg	J	Z

Sample ID: SL-054-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	640	J	610	MDL	1500	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	910	J	620	MDL	1600	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: SO**

Sample ID: SL-054-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
RDX	56	J	51	MDL	120	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-049-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	280	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:38:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

Sample ID: SL-063-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
m-Terphenyl	1.6	U	1.6	MDL	3.6	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.6	U	1.6	MDL	3.6	PQL	mg/Kg	UJ	S
p-Terphenyl	1.6	U	1.6	MDL	3.6	PQL	mg/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-064-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	190	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	540	PQL	ug/Kg	R	Q

Sample ID: SL-074-SA6-SB-9.0-10.0 *Collected:* 7/14/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	240	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: DUP02-SA6-QC-071411 *Collected:* 7/14/2011 8:25:00 *Analysis Type:* RES *Dilution:* 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	23		6.9	MDL	8.2	PQL	ug/Kg	U	B
CHLOROFORM	0.12	U	0.12	MDL	4.1	PQL	ug/Kg	UJ	FD
METHYLENE CHLORIDE	7.5		0.25	MDL	4.1	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.13	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-071-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.7	MDL	8.0	PQL	ug/Kg	U	B
CHLOROFORM	0.12	J	0.12	MDL	4.0	PQL	ug/Kg	J	Z
TOLUENE	0.10	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0 *Collected:* 7/14/2011 8:15:00 *Analysis Type:* RES *Dilution:* 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	28		6.9	MDL	8.2	PQL	ug/Kg	U	B
CHLOROFORM	0.17	J	0.12	MDL	4.1	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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: **SL-074-SA6-SB-4.0-5.0** ***Collected:*** **7/14/2011 8:15:00** ***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	82		0.25	MDL	4.1	PQL	ug/Kg	J	Q, FD
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: **SL-088-SA6-SB-4.0-5.0** ***Collected:*** **7/14/2011 10:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.92**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACETONE	21		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	5.7		0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE200

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE200 **Laboratory: LL**
EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C **Preparation Method: 3546**
Matrix: SO

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
SL-037-SA6-SS-0.0-0.5 (RES)	Sampling To Extraction	22.00	14.00	DAYS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC20B261338	8/9/2011 1:38:00 PM	N-NITROSODIMETHYLAMINE	168 ng/Kg	SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5

The 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-048-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	283 ng/Kg	283U ng/Kg
SL-049-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	703 ng/Kg	703U ng/Kg
SL-052-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	616 ng/Kg	616U ng/Kg
SL-053-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	432 ng/Kg	432U ng/Kg
SL-054-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	714 ng/Kg	714U ng/Kg
SL-055-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	2010 ng/Kg	2010U ng/Kg
SL-060-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	736 ng/Kg	736U ng/Kg
SL-063-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	308 ng/Kg	339U ng/Kg
SL-064-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	513 ng/Kg	513U ng/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19908CB221907	7/25/2011 7:07:00 PM	BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	0.456 mg/Kg 9.42 mg/Kg 0.538 mg/Kg 1.71 mg/Kg 0.0520 mg/Kg 1.58 mg/Kg	DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0

The 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-SA6-QC-071411(RES)	BORON	1.29 mg/Kg	1.29U mg/Kg
DUP02-SA6-QC-071411(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-037-SA6-SS-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE200 Laboratory: LL

EDD Filename: DE200_v2. 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-048-SA6-SS-0.0-0.5(RES)	BORON	1.99 mg/Kg	1.99U mg/Kg
SL-048-SA6-SS-0.0-0.5(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-049-SA6-SS-0.0-0.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-050-SA6-SS-0.0-0.5(RES)	BORON	1.73 mg/Kg	1.73U mg/Kg
SL-050-SA6-SS-0.0-0.5(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-051-SA6-SS-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-052-SA6-SS-0.0-0.5(RES)	BORON	1.87 mg/Kg	1.87U mg/Kg
SL-052-SA6-SS-0.0-0.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-053-SA6-SS-0.0-0.5(RES)	TIN	2.34 mg/Kg	2.34U mg/Kg
SL-054-SA6-SS-0.0-0.5(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-055-SA6-SS-0.0-0.5(RES)	BORON	1.94 mg/Kg	1.94U mg/Kg
SL-055-SA6-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-060-SA6-SS-0.0-0.5(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-063-SA6-SS-0.0-0.5(RES)	TIN	3.26 mg/Kg	3.26U mg/Kg
SL-064-SA6-SS-0.0-0.5(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-071-SA6-SB-4.0-5.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-071-SA6-SB-6.0-7.0(RES)	BORON	1.45 mg/Kg	1.45U mg/Kg
SL-071-SA6-SB-6.0-7.0(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-074-SA6-SB-4.0-5.0(RES)	BORON	2.14 mg/Kg	2.14U mg/Kg
SL-074-SA6-SB-4.0-5.0(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-074-SA6-SB-9.0-10.0(RES)	TIN	3.42 mg/Kg	3.42U mg/Kg
SL-088-SA6-SB-4.0-5.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-088-SA6-SB-9.0-10.0(RES)	BORON	0.746 mg/Kg	0.746U mg/Kg
SL-088-SA6-SB-9.0-10.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P04043AB320218A	7/26/2011 2:18:00 AM	EFH (C30-C40)	1.1 mg/Kg	DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P03033AB241257A	7/25/2011 12:57:00 PM	MCPA MCPP	190 ug/Kg 660 ug/Kg	SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5

The 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-053-SA6-SS-0.0-0.5(RES)	MCPA	490 ug/Kg	490U ug/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB21B211617A	7/20/2011 4:17:00 PM	ACETONE METHYLENE CHLORIDE	8.7 ug/Kg 0.96 ug/Kg	DUP02-SA6-QC-071411 SL-071-SA6-SB-4.0-5.0 SL-074-SA6-SB-4.0-5.0 SL-088-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP02-SA6-QC-071411(RES)	ACETONE	23 ug/Kg	23U ug/Kg
DUP02-SA6-QC-071411(RES)	METHYLENE CHLORIDE	7.5 ug/Kg	7.5U ug/Kg
SL-071-SA6-SB-4.0-5.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-074-SA6-SB-4.0-5.0(RES)	ACETONE	28 ug/Kg	28U ug/Kg
SL-088-SA6-SB-4.0-5.0(RES)	ACETONE	21 ug/Kg	21U ug/Kg
SL-088-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.7 ug/Kg	5.7U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_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-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	34 56 60	40 - -	59.00-109.00 63.00-107.00 63.00-107.00	- 22 (20.00) -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene 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-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	ETHANOL	0	6	48.00-130.00	200 (20.00)	ETHANOL	J(all detects) R(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-037-SA6-SS-0.0-0.5MSD (SL-037-SA6-SS-0.0-0.5)	ENDOSULFAN SULFATE	-	-	21.00-160.00	71 (50.00)	ENDOSULFAN SULFATE	J(all detects)
SL-037-SA6-SS-0.0-0.5MS SL-037-SA6-SS-0.0-0.5MSD (SL-037-SA6-SS-0.0-0.5)	DELTA-BHC	3	6	23.00-140.00	-	DELTA-BHC	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-037-SA6-SS-0.0-0.5MSD (SL-037-SA6-SS-0.0-0.5)	2,4-D MCPA	- -	- -	17.00-180.00 10.00-213.00	45 (35.00) 56 (50.00)	2,4-D MCPA	J(all detects)
SL-037-SA6-SS-0.0-0.5MS SL-037-SA6-SS-0.0-0.5MSD (SL-037-SA6-SS-0.0-0.5)	DICAMBA DINOSEB	200 0	0 0	10.00-190.00 10.00-46.00	200 (50.00) -	DICAMBA DINOSEB	J(all detects) R(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-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	EFH (C15-C20)	153	307	49.00-123.00	67 (20.00)	EFH (C15-C20)	J(all detects) MSD Diluted Out
SL-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	- -573 -1480 -	0 841 2368 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	200 (20.00) 134 (20.00) 142 (20.00) 200 (20.00)	EFH (C12-C14) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, MDS Diluted Out, MS >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **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-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	AROCLOR 1260	200	155	39.00-149.00	-	AROCLOR 1260	No Qual, Diluted Out

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-074-SA6-SB-4.0-5.0MS	ARSENIC	231	141	75.00-125.00	-	ARSENIC	
SL-074-SA6-SB-4.0-5.0MSD	BERYLLIUM	170	132	75.00-125.00	-	BERYLLIUM	
(DUP02-SA6-QC-071411	CADMIUM	190	157	75.00-125.00	-	CADMIUM	
SL-037-SA6-SS-0.0-0.5	CHROMIUM	195	139	75.00-125.00	-	CHROMIUM	
SL-048-SA6-SS-0.0-0.5	COBALT	168	135	75.00-125.00	-	COBALT	
SL-049-SA6-SS-0.0-0.5	NICKEL	209	158	75.00-125.00	-	NICKEL	
SL-050-SA6-SS-0.0-0.5	SILVER	164	138	75.00-125.00	-	SILVER	
SL-051-SA6-SS-0.0-0.5	THALLIUM	178	144	75.00-125.00	-	THALLIUM	
SL-052-SA6-SS-0.0-0.5	VANADIUM	292	173	75.00-125.00	-	VANADIUM	J(all detects)
SL-053-SA6-SS-0.0-0.5	ZINC	362	222	75.00-125.00	-	ZINC	
SL-054-SA6-SS-0.0-0.5							
SL-055-SA6-SS-0.0-0.5							
SL-060-SA6-SS-0.0-0.5							
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							Zn, No Qual, >4x
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							
SL-074-SA6-SB-4.0-5.0MS	ANTIMONY	69	59	75.00-125.00	-	ANTIMONY	
SL-074-SA6-SB-4.0-5.0MSD	COPPER	215	153	75.00-125.00	21 (20.00)	COPPER	
(DUP02-SA6-QC-071411	LEAD	305	197	75.00-125.00	21 (20.00)	LEAD	
SL-037-SA6-SS-0.0-0.5							
SL-048-SA6-SS-0.0-0.5							
SL-049-SA6-SS-0.0-0.5							
SL-050-SA6-SS-0.0-0.5							
SL-051-SA6-SS-0.0-0.5							
SL-052-SA6-SS-0.0-0.5							
SL-053-SA6-SS-0.0-0.5							
SL-054-SA6-SS-0.0-0.5							J(all detects)
SL-055-SA6-SS-0.0-0.5							UJ(all non-detects)
SL-060-SA6-SS-0.0-0.5							
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_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-074-SA6-SB-4.0-5.0MS **SL-074-SA6-SB-4.0-5.0MSD** (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	SELENIUM	159	-	75.00-125.00	24 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-074-SA6-SB-4.0-5.0MS **SL-074-SA6-SB-4.0-5.0MSD** (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	MOLYBDENUM	168	138	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-074-SA6-SB-4.0-5.0MS **SL-074-SA6-SB-4.0-5.0MSD** (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	BARIUM	408	276	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_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-074-SA6-SB-4.0-5.0MS	MAGNESIUM	475	627	75.00-125.00	-	MAGNESIUM	
SL-074-SA6-SB-4.0-5.0MSD	MANGANESE	-	127	75.00-125.00	-	MANGANESE	
(DUP02-SA6-QC-071411							
SL-037-SA6-SS-0.0-0.5							
SL-048-SA6-SS-0.0-0.5							
SL-049-SA6-SS-0.0-0.5							
SL-050-SA6-SS-0.0-0.5							
SL-051-SA6-SS-0.0-0.5							J(all detects)
SL-052-SA6-SS-0.0-0.5							
SL-053-SA6-SS-0.0-0.5							
SL-054-SA6-SS-0.0-0.5							
SL-055-SA6-SS-0.0-0.5							
SL-060-SA6-SS-0.0-0.5							Mg, No Qual, >4x
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							
SL-074-SA6-SB-4.0-5.0MS	CALCIUM	29	57	75.00-125.00	-	CALCIUM	
SL-074-SA6-SB-4.0-5.0MSD	IRON	-357	420	75.00-125.00	-	IRON	
(DUP02-SA6-QC-071411							
SL-037-SA6-SS-0.0-0.5							
SL-048-SA6-SS-0.0-0.5							
SL-049-SA6-SS-0.0-0.5							
SL-050-SA6-SS-0.0-0.5							
SL-051-SA6-SS-0.0-0.5							
SL-052-SA6-SS-0.0-0.5							
SL-053-SA6-SS-0.0-0.5							
SL-054-SA6-SS-0.0-0.5							
SL-055-SA6-SS-0.0-0.5							No Qual, >4x
SL-060-SA6-SS-0.0-0.5							
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-074-SA6-SB-4.0-5.0MSD (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	MERCURY	-	402	65.00-135.00	48 (20.00)	MERCURY	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-074-SA6-SB-4.0-5.0MSD	4-CHLOROANILINE	-	-	13.00-107.00	32 (30.00)	4-CHLOROANILINE	J(all detects)
(SL-074-SA6-SB-4.0-5.0)	BENZIDINE	-	-	35.00-141.00	43 (30.00)	BENZIDINE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-074-SA6-SB-4.0-5.0MS	BENZO(A)ANTHRACENE	-	174	59.00-128.00	35 (30.00)	BENZO(A)ANTHRACENE	J(all detects)
SL-074-SA6-SB-4.0-5.0MSD	BENZO(A)PYRENE	-	172	45.00-138.00	-	BENZO(A)PYRENE	
(SL-074-SA6-SB-4.0-5.0)	BENZO(B)FLUORANTHENE	177	194	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-	-	33.00-141.00	87 (30.00)	BENZO(G,H,I)PERYLENE	
	CHRYSENE	-	173	48.00-134.00	38 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-	-	22.00-133.00	70 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Di-n-octylphthalate	217	-	40.00-192.00	82 (30.00)	Di-n-octylphthalate	
	FLUORANTHENE	-	195	26.00-166.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-	157	21.00-143.00	88 (30.00)	INDENO(1,2,3-CD)PYRENE	
	PYRENE	-	201	15.00-153.00	52 (30.00)	PYRENE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_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-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	ALUMINUM TITANIUM	1545 141	2297 244	75.00-125.00 75.00-125.00	- -	ALUMINUM 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-037-SA6-SS-0.0-0.5MS (SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-074-SA6-SB-4.0-5.0MS (SL-074-SA6-SB-4.0-5.0)	1,2-DICHLOROETHANE	135	-	68.00-131.00	-	1,2-DICHLOROETHANE	J(all detects)
SL-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	METHYLENE CHLORIDE	-119	-156	61.00-141.00	-	METHYLENE CHLORIDE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 314.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-074-SA6-SB-4.0-5.0DUP (DUP02-SA6-QC-071411 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	PERCHLORATE	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-074-SA6-SB-4.0-5.0DUP (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	ANTIMONY	49	20.00	J(all detects) UJ(all non-detects)
	BERYLLIUM	46	20.00	Sb, Cd, No Qual, OK by Difference
	CADMIUM	31	20.00	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-074-SA6-SB-4.0-5.0DUP (DUP02-SA6-QC-071411 SL-037-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0)	MERCURY	54	20.00	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **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
P11992AQ320759A	DIETHYLENE GLYCOL	145	-	75.00-125.00	-	DIETHYLENE GLYCOL	
(DUP02-SA6-QC-071411	ETHYLENE GLYCOL	143	-	65.00-122.00	-	ETHYLENE GLYCOL	
SL-037-SA6-SS-0.0-0.5	Propylene glycol	133	-	75.00-125.00	-	Propylene glycol	
SL-048-SA6-SS-0.0-0.5							
SL-049-SA6-SS-0.0-0.5							
SL-050-SA6-SS-0.0-0.5							
SL-051-SA6-SS-0.0-0.5							
SL-052-SA6-SS-0.0-0.5							
SL-053-SA6-SS-0.0-0.5							
SL-054-SA6-SS-0.0-0.5							
SL-055-SA6-SS-0.0-0.5							J (all detects)
SL-060-SA6-SS-0.0-0.5							
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19908CQ221911	IRON	144	-	80.00-120.00	-	IRON	
(DUP02-SA6-QC-071411	MAGNESIUM	134	-	80.00-120.00	-	MAGNESIUM	
SL-037-SA6-SS-0.0-0.5	POTASSIUM	129	-	80.00-120.00	-	POTASSIUM	
SL-048-SA6-SS-0.0-0.5							
SL-049-SA6-SS-0.0-0.5							
SL-050-SA6-SS-0.0-0.5							
SL-051-SA6-SS-0.0-0.5							
SL-052-SA6-SS-0.0-0.5							
SL-053-SA6-SS-0.0-0.5							
SL-054-SA6-SS-0.0-0.5							
SL-055-SA6-SS-0.0-0.5							No Qual, SRM within QC Limits
SL-060-SA6-SS-0.0-0.5							
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_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
P2LALCSQ261121	1,2,4-TRICHLOROBENZENE	72	-	73.00-108.00	-	1,2,4-TRICHLOROBENZENE	
(DUP02-SA6-QC-071411	1,2-DICHLOROBENZENE	73	-	74.00-99.00	-	1,2-DICHLOROBENZENE	
SL-037-SA6-SS-0.0-0.5	1,4-DICHLOROBENZENE	71	-	74.00-106.00	-	1,4-DICHLOROBENZENE	
SL-048-SA6-SS-0.0-0.5	3,5-Dimethylphenol	79	-	83.00-120.00	-	3,5-Dimethylphenol	
SL-049-SA6-SS-0.0-0.5	ACENAPHTHENE	75	-	76.00-111.00	-	ACENAPHTHENE	
SL-050-SA6-SS-0.0-0.5	CARBAZOLE	75	-	77.00-113.00	-	CARBAZOLE	
SL-051-SA6-SS-0.0-0.5	CHRYSENE	70	-	76.00-113.00	-	CHRYSENE	
SL-052-SA6-SS-0.0-0.5	Dimethylphthalate	76	-	77.00-109.00	-	Dimethylphthalate	
SL-053-SA6-SS-0.0-0.5	Di-n-butylphthalate	76	-	79.00-112.00	-	Di-n-butylphthalate	
SL-054-SA6-SS-0.0-0.5	FLUORANTHENE	77	-	78.00-116.00	-	FLUORANTHENE	J(all detects)
SL-055-SA6-SS-0.0-0.5	HEXACHLOROBENZENE	72	-	73.00-119.00	-	HEXACHLOROBENZENE	UJ(all non-detects)
SL-060-SA6-SS-0.0-0.5	PHENANTHRENE	74	-	77.00-113.00	-	PHENANTHRENE	
SL-063-SA6-SS-0.0-0.5	PYRENE	73	-	75.00-115.00	-	PYRENE	
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20708AQ221414	TITANIUM	145	-	80.00-120.00	-	TITANIUM	
(DUP02-SA6-QC-071411							
SL-037-SA6-SS-0.0-0.5							
SL-048-SA6-SS-0.0-0.5							
SL-049-SA6-SS-0.0-0.5							
SL-050-SA6-SS-0.0-0.5							
SL-051-SA6-SS-0.0-0.5							
SL-052-SA6-SS-0.0-0.5							
SL-053-SA6-SS-0.0-0.5							No Qual,
SL-054-SA6-SS-0.0-0.5							SRM within QC
SL-055-SA6-SS-0.0-0.5							Limits
SL-060-SA6-SS-0.0-0.5							
SL-063-SA6-SS-0.0-0.5							
SL-064-SA6-SS-0.0-0.5							
SL-071-SA6-SB-4.0-5.0							
SL-071-SA6-SB-6.0-7.0							
SL-074-SA6-SB-4.0-5.0							
SL-074-SA6-SB-9.0-10.0							
SL-088-SA6-SB-4.0-5.0							
SL-088-SA6-SB-9.0-10.0)							

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB21Q211642A	1,2-DIBROMO-3-CHLOROPROP	121	-	58.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	
(DUP02-SA6-QC-071411							
SL-071-SA6-SB-4.0-5.0							J(all detects)
SL-074-SA6-SB-4.0-5.0							
SL-088-SA6-SB-4.0-5.0)							

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

Surrogate Outlier Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-060-SA6-SS-0.0 -0.5	n-Triacontane-d62	39	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-063-SA6-SS-0.0 -0.5	n-Triacontane-d62	34	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-037-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	121	20.00-120.00	All Target Analytes	J (all detects)
SL-053-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	122	20.00-120.00	All Target Analytes	J(all detects)
SL-053-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	49	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-063-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	162	20.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-063-SA6-SS-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: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
MOISTURE	7.0	6.8	3		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
FLUORIDE	2.6	2.3	12	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
ALUMINUM	13000	11700	11	50.00	
BORON	2.14	1.29	50	50.00	
MAGNESIUM	4220	5050	18	50.00	
MANGANESE	164	266	47	50.00	
PHOSPHORUS	377	422	11	50.00	
POTASSIUM	2330	2610	11	50.00	No Qualifiers Applied
SODIUM	306	316	3	50.00	
STRONTIUM	29.6	32.6	10	50.00	
TIN	2.31	2.73	17	50.00	
TITANIUM	891	757	16	50.00	
Zirconium	2.66	2.97	11	50.00	
CALCIUM	4720	8060	52	50.00	J(all detects)
IRON	19500	32900	51	50.00	
LITHIUM	9.4	17.6	61	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
ANTIMONY	0.256	0.246	4	50.00	
ARSENIC	6.29	8.85	34	50.00	
BARIUM	83.2	79.8	4	50.00	
CHROMIUM	15.1	14.2	6	50.00	
COBALT	7.09	10.4	38	50.00	
COPPER	12.1	14.3	17	50.00	
LEAD	8.68	9.86	13	50.00	
MOLYBDENUM	0.886	0.733	19	50.00	No Qualifiers Applied
NICKEL	10.6	11.2	6	50.00	
SELENIUM	0.172	0.129	29	50.00	
SILVER	0.0372	0.0414	11	50.00	
THALLIUM	0.244	0.192	24	50.00	
VANADIUM	38.7	45.1	15	50.00	
ZINC	56.7	61.3	8	50.00	
BERYLLIUM	1.08	0.580	60	50.00	J(all detects)
CADMIUM	0.116	0.209	57	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
HEXAVALENT CHROMIUM	0.38	0.36	5	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
MERCURY	0.647	2.45	116	50.00	J(all detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
EFH (C15-C20)	2.6 U	3.1	200	50.00	J(all detects)
EFH (C21-C30)	21	53	86	50.00	UJ(all non-detects)
EFH (C30-C40)	61	160	90	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
AROCLOR 1254	63	250	119	50.00	J(all detects)
Aroclor 5460	85	210	85	50.00	

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
ACETONE	28	23	20	50.00	No Qualifiers Applied
TOLUENE	0.12	0.13	8	50.00	
CHLOROFORM	0.17	4.1 U	200	50.00	J(all detects)
METHYLENE CHLORIDE	82	7.5	166	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
ANTHRACENE	1.8 U	3.4	200	50.00	
BENZO(A)ANTHRACENE	2.3	21	161	50.00	
BENZO(A)PYRENE	3.5	20	140	50.00	
BENZO(B)FLUORANTHENE	2.3	32	173	50.00	
BENZO(G,H,I)PERYLENE	0.82	7.0	158	50.00	
BENZO(K)FLUORANTHENE	4.7	12	87	50.00	J(all detects)
CHRYSENE	3.0	19	145	50.00	UJ(all non-detects)
FLUORANTHENE	3.6	33	161	50.00	
INDENO(1,2,3-CD)PYRENE	0.74	6.3	158	50.00	
NAPHTHALENE	1.8 U	3.8	200	50.00	
PHENANTHRENE	1.3	8.5	147	50.00	
PYRENE	2.6	22	158	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
PH	8.83	8.77	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-063-SA6-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	308	339	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.5	PQL	mg/Kg	J (all detects)
SL-055-SA6-SS-0.0-0.5	Nitrate-NO3	J	0.98	1.5	PQL	mg/Kg	J (all detects)
SL-063-SA6-SS-0.0-0.5	FLUORIDE	J	0.91	1.1	PQL	mg/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	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
DUP02-SA6-QC-071411	BORON	J	1.29	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.4	PQL	mg/Kg	
	Zirconium	J	2.97	5.21	PQL	mg/Kg	
SL-037-SA6-SS-0.0-0.5	BORON	J	4.23	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	52.9	102	PQL	mg/Kg	
	TIN	J	2.34	10.2	PQL	mg/Kg	
	Zirconium	J	1.52	5.10	PQL	mg/Kg	
SL-048-SA6-SS-0.0-0.5	BORON	J	1.99	4.95	PQL	mg/Kg	J (all detects)
	SODIUM	J	64.6	99.0	PQL	mg/Kg	
	TIN	J	2.72	9.90	PQL	mg/Kg	
	Zirconium	J	2.80	4.95	PQL	mg/Kg	
SL-049-SA6-SS-0.0-0.5	BORON	J	2.57	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.0	99.8	PQL	mg/Kg	
	TIN	J	2.68	9.98	PQL	mg/Kg	
	Zirconium	J	0.670	4.99	PQL	mg/Kg	
SL-050-SA6-SS-0.0-0.5	BORON	J	1.73	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	62.4	98.8	PQL	mg/Kg	
	TIN	J	2.37	9.88	PQL	mg/Kg	
	Zirconium	J	1.92	4.94	PQL	mg/Kg	
SL-051-SA6-SS-0.0-0.5	BORON	J	2.60	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	51.7	100	PQL	mg/Kg	
	TIN	J	2.55	10.0	PQL	mg/Kg	
	Zirconium	J	1.65	5.01	PQL	mg/Kg	
SL-052-SA6-SS-0.0-0.5	BORON	J	1.87	4.91	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.1	98.3	PQL	mg/Kg	
	TIN	J	2.60	9.83	PQL	mg/Kg	
	Zirconium	J	2.00	4.91	PQL	mg/Kg	
SL-053-SA6-SS-0.0-0.5	BORON	J	2.79	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.3	101	PQL	mg/Kg	
	TIN	J	2.34	10.1	PQL	mg/Kg	
	Zirconium	J	1.96	5.03	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA6-SS-0.0-0.5	BORON	J	2.80	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	61.5	101	PQL	mg/Kg	
	TIN	J	2.73	10.1	PQL	mg/Kg	
	Zirconium	J	2.05	5.03	PQL	mg/Kg	
SL-055-SA6-SS-0.0-0.5	BORON	J	1.94	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	58.2	101	PQL	mg/Kg	
	TIN	J	2.66	10.1	PQL	mg/Kg	
	Zirconium	J	1.77	5.03	PQL	mg/Kg	
SL-060-SA6-SS-0.0-0.5	BORON	J	3.33	4.97	PQL	mg/Kg	J (all detects)
	SODIUM	J	75.1	99.5	PQL	mg/Kg	
	TIN	J	2.64	9.95	PQL	mg/Kg	
	Zirconium	J	2.12	4.97	PQL	mg/Kg	
SL-063-SA6-SS-0.0-0.5	BORON	J	4.53	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	3.26	10.1	PQL	mg/Kg	
	Zirconium	J	1.47	5.07	PQL	mg/Kg	
SL-064-SA6-SS-0.0-0.5	BORON	J	2.68	5.11	PQL	mg/Kg	J (all detects)
	SODIUM	J	65.0	102	PQL	mg/Kg	
	TIN	J	2.72	10.2	PQL	mg/Kg	
	Zirconium	J	2.19	5.11	PQL	mg/Kg	
SL-071-SA6-SB-4.0-5.0	BORON	J	2.83	26.2	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	10.5	PQL	mg/Kg	
SL-071-SA6-SB-6.0-7.0	BORON	J	1.45	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.48	10.7	PQL	mg/Kg	
	Zirconium	J	1.64	5.35	PQL	mg/Kg	
SL-074-SA6-SB-4.0-5.0	BORON	J	2.14	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.31	10.4	PQL	mg/Kg	
	Zirconium	J	2.66	5.22	PQL	mg/Kg	
SL-074-SA6-SB-9.0-10.0	TIN	J	3.42	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.73	5.37	PQL	mg/Kg	
SL-088-SA6-SB-4.0-5.0	TIN	J	2.46	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.65	5.32	PQL	mg/Kg	
SL-088-SA6-SB-9.0-10.0	BORON	J	0.746	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	10.1	PQL	mg/Kg	
	Zirconium	J	3.48	5.05	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	SELENIUM	J	0.129	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0414	0.106	PQL	mg/Kg	
SL-037-SA6-SS-0.0-0.5	ANTIMONY	J	0.180	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.178	0.400	PQL	mg/Kg	
	SILVER	J	0.0689	0.100	PQL	mg/Kg	
SL-048-SA6-SS-0.0-0.5	ANTIMONY	J	0.188	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.169	0.396	PQL	mg/Kg	
SL-049-SA6-SS-0.0-0.5	ANTIMONY	J	0.127	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.395	PQL	mg/Kg	
	SILVER	J	0.0567	0.0988	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SS-0.0-0.5	ANTIMONY	J	0.111	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.179	0.403	PQL	mg/Kg	
	SILVER	J	0.0328	0.101	PQL	mg/Kg	
SL-051-SA6-SS-0.0-0.5	ANTIMONY	J	0.124	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.220	0.401	PQL	mg/Kg	
	SILVER	J	0.0469	0.100	PQL	mg/Kg	
SL-052-SA6-SS-0.0-0.5	ANTIMONY	J	0.137	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.205	0.401	PQL	mg/Kg	
	SILVER	J	0.0921	0.100	PQL	mg/Kg	
SL-053-SA6-SS-0.0-0.5	ANTIMONY	J	0.118	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.176	0.402	PQL	mg/Kg	
	SILVER	J	0.0442	0.101	PQL	mg/Kg	
SL-054-SA6-SS-0.0-0.5	ANTIMONY	J	0.114	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.200	0.399	PQL	mg/Kg	
	SILVER	J	0.0434	0.0996	PQL	mg/Kg	
SL-055-SA6-SS-0.0-0.5	SELENIUM	J	0.194	0.390	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0395	0.0976	PQL	mg/Kg	
SL-060-SA6-SS-0.0-0.5	SELENIUM	J	0.157	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0663	0.102	PQL	mg/Kg	
SL-063-SA6-SS-0.0-0.5	SELENIUM	J	0.210	0.406	PQL	mg/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	ANTIMONY	J	0.119	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0925	0.397	PQL	mg/Kg	
	SILVER	J	0.0742	0.0993	PQL	mg/Kg	
SL-071-SA6-SB-4.0-5.0	SELENIUM	J	0.141	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0527	0.106	PQL	mg/Kg	
SL-071-SA6-SB-6.0-7.0	SELENIUM	J	0.125	0.437	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0592	0.109	PQL	mg/Kg	
SL-074-SA6-SB-4.0-5.0	SELENIUM	J	0.172	0.422	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0372	0.105	PQL	mg/Kg	
SL-074-SA6-SB-9.0-10.0	SELENIUM	J	0.132	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0542	0.106	PQL	mg/Kg	
SL-088-SA6-SB-4.0-5.0	SELENIUM	J	0.116	0.425	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0357	0.106	PQL	mg/Kg	
SL-088-SA6-SB-9.0-10.0	ANTIMONY	J	0.139	0.204	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0795	0.102	PQL	mg/Kg	
	SELENIUM	J	0.0779	0.408	PQL	mg/Kg	
	SILVER	J	0.0349	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-048-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	0.99	PQL	mg/Kg	J (all detects)
SL-050-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.0	PQL	mg/Kg	J (all detects)
SL-052-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-053-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-071-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.75	1.1	PQL	mg/Kg	J (all detects)
SL-071-SA6-SB-6.0-7.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-074-SA6-SB-9.0-10.0	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
SL-037-SA6-SS-0.0-0.5	MERCURY	J	0.0077	0.101	PQL	mg/Kg	J (all detects)
SL-048-SA6-SS-0.0-0.5	MERCURY	J	0.0555	0.0945	PQL	mg/Kg	J (all detects)
SL-050-SA6-SS-0.0-0.5	MERCURY	J	0.0135	0.0964	PQL	mg/Kg	J (all detects)
SL-051-SA6-SS-0.0-0.5	MERCURY	J	0.0153	0.0990	PQL	mg/Kg	J (all detects)
SL-052-SA6-SS-0.0-0.5	MERCURY	J	0.0147	0.0993	PQL	mg/Kg	J (all detects)
SL-053-SA6-SS-0.0-0.5	MERCURY	J	0.0093	0.100	PQL	mg/Kg	J (all detects)
SL-054-SA6-SS-0.0-0.5	MERCURY	J	0.0202	0.0968	PQL	mg/Kg	J (all detects)
SL-055-SA6-SS-0.0-0.5	MERCURY	J	0.0128	0.0987	PQL	mg/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	MERCURY	J	0.0699	0.0971	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA6-SS-0.0-0.5	Isopropanol	J	280	500	PQL	ug/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	Isopropanol	J	190	510	PQL	ug/Kg	J (all detects)
SL-074-SA6-SB-9.0-10.0	METHANOL	J	240	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	EFH (C15-C20)	J	3.1	6.4	PQL	mg/Kg	J (all detects)
SL-037-SA6-SS-0.0-0.5	EFH (C12-C14) EFH (C8-C11)	J J	0.99 0.90	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-048-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.52	1.2	PQL	mg/Kg	J (all detects)
SL-050-SA6-SS-0.0-0.5	EFH (C12-C14) EFH (C8-C11)	J J	0.46 0.64	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA6-SS-0.0-0.5	EFH (C8-C11)	J	4.1	6.1	PQL	mg/Kg	J (all detects)
SL-054-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.53	1.2	PQL	mg/Kg	J (all detects)
SL-055-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.41	1.2	PQL	mg/Kg	J (all detects)
SL-063-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.9	6.2	PQL	mg/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	EFH (C12-C14) EFH (C8-C11)	J J	0.46 0.78	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-071-SA6-SB-4.0-5.0	EFH (C15-C20)	J	1.0	2.6	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA6-SS-0.0-0.5	4,4'-DDE ENDOSULFAN II ENDRIN ALDEHYDE ENDRIN KETONE HEPTACHLOR EPOXIDE	J J J J J	0.071 0.13 0.11 0.10 0.039	0.34 0.34 0.34 0.34 0.17	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-049-SA6-SS-0.0-0.5	4,4'-DDE 4,4'-DDT	J J	0.13 0.21	0.34 0.34	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-050-SA6-SS-0.0-0.5	HEPTACHLOR	J	0.080	0.17	PQL	ug/Kg	J (all detects)
SL-051-SA6-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.10	0.17	PQL	ug/Kg	J (all detects)
SL-052-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.066	0.17	PQL	ug/Kg	J (all detects)
SL-054-SA6-SS-0.0-0.5	DELTA-BHC HEPTACHLOR EPOXIDE	J J	0.041 0.051	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-055-SA6-SS-0.0-0.5	DELTA-BHC DIELDRIN ENDOSULFAN II ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE	J J J J J	0.039 0.085 0.14 0.22 0.062	0.17 0.35 0.35 0.35 0.17	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-060-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.047	0.17	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SS-0.0-0.5	Aroclor 5460	J	1.3	3.4	PQL	ug/Kg	J (all detects)
SL-049-SA6-SS-0.0-0.5	AROCLOR 1260	J	0.65	1.7	PQL	ug/Kg	J (all detects)
SL-051-SA6-SS-0.0-0.5	AROCLOR 1260	J	0.96	1.7	PQL	ug/Kg	J (all detects)
SL-053-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-063-SA6-SS-0.0-0.5	Aroclor 5460	J	25	34	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SS-0.0-0.5	2,4-DB	J	1.1	1.7	PQL	ug/Kg	J (all detects)
SL-049-SA6-SS-0.0-0.5	2,4,5-TP (Silvex) DICAMBA	J J	0.086 0.68	0.17 1.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-052-SA6-SS-0.0-0.5	2,4,5-T	J	0.091	0.17	PQL	ug/Kg	J (all detects)
SL-054-SA6-SS-0.0-0.5	DICAMBA	J	0.47	1.2	PQL	ug/Kg	J (all detects)
SL-055-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.10	0.17	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	TOLUENE	J	0.13	4.1	PQL	ug/Kg	J (all detects)
SL-071-SA6-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.12 0.10	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-074-SA6-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.17 0.12	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	340	PQL	ug/Kg	J (all detects)
SL-048-SA6-SS-0.0-0.5	CHRYSENE	J	17	170	PQL	ug/Kg	J (all detects)
SL-049-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	340	PQL	ug/Kg	J (all detects)
SL-063-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE BIS(2-ETHYLHEXYL)PHTHALATE	J J	18 30	170 350	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-071-SA6-SB-6.0-7.0	BENZO(A)PYRENE BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	J J J J J	54 47 44 36 71	180 180 180 180 180	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-074-SA6-SB-9.0-10.0	BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE CHRYSENE FLUORANTHENE INDENO(1,2,3-CD)PYRENE PYRENE	J J J J J J J J	33 33 41 35 34 51 21 45	180 180 180 180 180 180 180 180	PQL PQL PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-088-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE INDENO(1,2,3-CD)PYRENE	J J	29 21	180 180	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	ANTHRACENE	J	3.4	8.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	7.0	8.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	6.3	8.9	PQL	ug/Kg	
	NAPHTHALENE	J	3.8	8.9	PQL	ug/Kg	
	PHENANTHRENE	J	8.5	8.9	PQL	ug/Kg	
SL-037-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.98	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.84	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.85	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.99	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	9.2	18	PQL	ug/Kg	
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.2	18	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-048-SA6-SS-0.0-0.5	Butylbenzylphthalate	J	6.1	18	PQL	ug/Kg	J (all detects)
SL-049-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.68	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.91	1.7	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.82	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	18	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.6	18	PQL	ug/Kg	
	FLUORENE	J	0.73	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.97	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-050-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.1	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.94	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.69	1.7	PQL	ug/Kg	
SL-051-SA6-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	0.74	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.54	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.8	18	PQL	ug/Kg	
SL-052-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	0.74	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.1	18	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.2	18	PQL	ug/Kg	
SL-053-SA6-SS-0.0-0.5	CHRYSENE	J	2.4	8.3	PQL	ug/Kg	J (all detects)
SL-054-SA6-SS-0.0-0.5	ANTHRACENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	16	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.3	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.4	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.90	1.7	PQL	ug/Kg	
SL-055-SA6-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	0.72	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.47	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.73	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE200 **Laboratory: LL**

EDD Filename: DE200_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.7	PQL	ug/Kg	
	PYRENE	J	0.71	1.7	PQL	ug/Kg	
SL-063-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	3.8	8.6	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	6.1	8.6	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	7.6	8.6	PQL	ug/Kg	
	CHRYSENE	J	6.1	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	6.6	8.6	PQL	ug/Kg	
	PYRENE	J	4.5	8.6	PQL	ug/Kg	
SL-064-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	9.7	18	PQL	ug/Kg	
	FLUORENE	J	1.1	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.81	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.3	1.7	PQL	ug/Kg	
SL-071-SA6-SB-6.0-7.0	ANTHRACENE	J	9.5	18	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	7.3	18	PQL	ug/Kg	
SL-074-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.82	1.8	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.9	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.74	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.8	PQL	ug/Kg	
SL-074-SA6-SB-9.0-10.0	ACENAPHTHENE	J	5.7	9.0	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	5.0	9.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	46	97	PQL	ug/Kg	
SL-088-SA6-SB-4.0-5.0	ANTHRACENE	J	4.9	9.0	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	4.0	9.0	PQL	ug/Kg	
	PHENANTHRENE	J	5.7	9.0	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA6-SS-0.0-0.5	FORMALDEHYDE	J	800	1500	PQL	ug/Kg	J (all detects)
SL-054-SA6-SS-0.0-0.5	FORMALDEHYDE	J	640	1500	PQL	ug/Kg	J (all detects)
SL-063-SA6-SS-0.0-0.5	FORMALDEHYDE	J	910	1600	PQL	ug/Kg	J (all detects)

Method: 8330A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA6-SS-0.0-0.5	RDX	J	56	120	PQL	ug/Kg	J (all detects)

LDC #: 26407S4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21-11
SDG #: DE200 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CR
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	D
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	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-037-SA6-SS-0.0-0.5	11	SL-063-SA6-SS-0.0-0.5	21	SL-074-SA6-SB-4.0-5.0MSD	31	
2	SL-048-SA6-SS-0.0-0.5	12	SL-064-SA6-SS-0.0-0.5	22	SL-074-SA6-SB-4.0-5.0DUP	32	
3	SL-049-SA6-SS-0.0-0.5	13	SL-071-SA6-SB-4.0-5.0	23		33	
4	SL-050-SA6-SS-0.0-0.5	14	SL-071-SA6-SB-6.0-7.0	24		34	
5	SL-051-SA6-SS-0.0-0.5	15	SL-074-SA6-SB-4.0-5.0 D	25		35	
6	SL-052-SA6-SS-0.0-0.5	16	SL-074-SA6-SB-9.0-10.0	26		36	
7	SL-053-SA6-SS-0.0-0.5	17	SL-088-SA6-SB-4.0-5.0	27		37	
8	SL-054-SA6-SS-0.0-0.5	18	SL-088-SA6-SB-9.0-10.0	28		38	
9	SL-055-SA6-SS-0.0-0.5	19	DUP02-SA6-QC-071411 D	29		39	
10	SL-060-SA6-SS-0.0-0.5	20	SL-074-SA6-SB-4.0-5.0MS	30		40	

Notes: _____

LDC #: 26407S4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: MG

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

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	14	15	16	17	18	19
Zr	7.3	3.65	1.5	2.8	0.67	1.9	1.7	2.0	2.0	2.0	1.8	2.1	1.5	2.2	1.6	2.7	2.7	1.6	3.5	3.0

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A (MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE200
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6345448BKG Matrix Spike Lab Sample ID: 6345449MS Matrix Spike Duplicate Lab Sample ID: 6345450MSD
% Solids for Sample: 93.0
Batch Id(s): P20708A, P19926B, P19908C, P19911C

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		12955.0827		16212.6787		17894.9720		210.8370	215.0538	MG/KG	1545		2297		10			20	P
Antimony	121	0.2555		1.1282		1.0051		1.2650	1.2650	MG/KG	69	N	59	N	12		75 - 125	20	MS
Arsenic	75	6.2872		11.1512		9.2621		2.1084	2.1084	MG/KG	231	N	141	N	19		75 - 125	20	MS
Barium	137	83.1963		126.2070		112.2707		10.5419	10.5419	MG/KG	408		276		12			20	MS
Beryllium	9	1.0837		2.5132		2.1990		0.8433	0.8433	MG/KG	170	N	132	N	13		75 - 125	20	MS
Boron		2.1380	B	202.8558		204.4222		210.8370	208.7901	MG/KG	95		97		1		84 - 115	20	P
Cadmium	111	0.1162		2.1210		1.7702		1.0542	1.0542	MG/KG	190	N	157	N	18		75 - 125	20	MS
Calcium		4724.0985		4847.0367		4964.0996		421.6740	417.5801	MG/KG	29		57		2			20	P
Chromium	52	15.1254		35.6525		29.7913		10.5419	10.5419	MG/KG	195	N	139	N	18		75 - 125	20	MS
Cobalt	59	7.0947		95.6146		78.0519		52.7093	52.7093	MG/KG	168	N	135	N	20		75 - 125	20	MS
Copper	63	12.0831		34.7249		28.2311		10.5419	10.5419	MG/KG	215	N	153	N	21	*	75 - 125	20	MS
Iron		19452.1881		19075.7664		19890.6556		105.4185	104.3950	MG/KG	-357		420		4			20	P
Lead	208	8.6802		18.3196		14.9020		3.1626	3.1626	MG/KG	305	N	197	N	21	*	75 - 125	20	MS
Lithium		9.4363		118.2047		118.9989		105.4185	104.3950	MG/KG	103		105		1		82 - 114	20	P
Magnesium		4224.0537		5226.1838		5534.1915		210.8370	208.7901	MG/KG	475		627		6			20	P
Manganese		163.8282		204.6279		229.8632		52.7093	52.1975	MG/KG	77		127	N	12		75 - 125	20	P
Mercury		0.6466		0.8240		1.3447		0.1682	0.1735	MG/KG	105		402	N	48	*	65 - 135	20	CV
Molybdenum	98	0.8859		18.5494		15.3995		10.5419	10.5419	MG/KG	168	N	138	N	19		75 - 125	20	MS
Nickel	60	10.5735		32.5532		27.1980		10.5419	10.5419	MG/KG	208	N	158	N	18		75 - 125	20	MS
Phosphorus		377.4340		479.5151		497.3400		105.4185	104.3950	MG/KG	97		115		4		75 - 125	20	P
Potassium		2330.7339		3392.4689		3465.6947		1054.1851	1043.9503	MG/KG	101		109		2		75 - 125	20	P
Selenium	78	0.1716	B	3.5210		2.7746		2.1084	2.1084	MG/KG	159	N	123		24	*	75 - 125	20	MS
Silver	107	0.0372	B	17.2971		14.6300		10.5419	10.5419	MG/KG	164	N	138	N	17		75 - 125	20	MS
Sodium		306.0006		1331.3704		1347.8662		1054.1851	1043.9503	MG/KG	97		100		1		75 - 125	20	P
Strontium		29.5521		134.5688		136.6844		105.4185	104.3950	MG/KG	100		103		2		75 - 115	20	P
Thallium	203	0.2439		0.9935		0.8501		0.4217	0.4217	MG/KG	178	N	144	N	16		75 - 125	20	MS
Tin		2.3113	B	386.9914		381.6087		421.6740	417.5801	MG/KG	91		91		1		80 - 110	20	P
Titanium		890.7196		1039.0312		1152.7226		105.4185	107.5269	MG/KG	141		244		10			20	P
Vanadium	51	38.6886		69.4497		56.9260		10.5419	10.5419	MG/KG	292	N	173	N	20		75 - 125	20	MS
Zinc	66	56.6519		94.7712		80.0759		10.5419	10.5419	MG/KG	362		222		17			20	MS
Zirconium		2.6579	B	105.1360		102.9377		105.4185	104.3950	MG/KG	97		96		2		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE200
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6345448BKG
% Solids for Duplicate: 92.9
Batch ID(s): P20708A, P19926B, P19908C, P19911C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6345451DUP
% Solids for Sample: 93.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12955.0827		12136.7142		7		P
Antimony	121	0.2	0.2555		0.1545	B	49		MS
Arsenic	75		6.2872		5.3304		16		MS
Barium	137		83.1963		78.1501		6		MS
Beryllium	9		1.0837		0.6775		46	*	MS
Boron			2.1380	B	1.8227	B	16		P
Cadmium	111	0.1	0.1162		0.1588		31		MS
Calcium			4724.0985		4259.1577		10		P
Chromium	52		15.1254		13.1350		14		MS
Cobalt	59		7.0947		7.2826		3		MS
Copper	63		12.0831		11.9052		1		MS
Iron			19452.1881		17953.7887		8		P
Lead	208		8.6802		8.8089		1		MS
Lithium		2.1	9.4363		8.6201		9		P
Magnesium			4224.0537		3902.3319		8		P
Manganese			163.8282		139.4529		16		P
Mercury			0.6466		1.1201		54	*	CV
Molybdenum	98		0.8859		0.9283		5		MS
Nickel	60		10.5735		9.2473		13		MS
Phosphorus			377.4340		367.3688		3		P
Potassium			2330.7339		2084.7143		11		P
Selenium	78		0.1716	B	0.1544	B	11		MS
Silver	107		0.0372	B	0.0344	B	8		MS
Sodium		104.4	306.0006		292.1727		5		P
Strontium			29.5521		26.8332		10		P
Thallium	203	0.1	0.2439		0.2140		13		MS
Tin			2.3113	B	2.2791	B	1		P
Titanium			890.7196		799.7798		11		P
Vanadium	51		38.6886		33.4482		15		MS
Zinc	66		56.6519		54.6612		4		MS
Zirconium			2.6579	B	3.2374	B	20		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.

DE200 6678

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

SAMPLE DELIVERY GROUP

DE201

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3050B	6010B	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3050B	6020	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3060A	7199	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3550B	8015M	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3550B	8081A	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3550B	8082	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3550B	8151A	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3550B	8270C	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	3550B	8270C SIM	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	METHOD	300.0	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	METHOD	314.0	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	METHOD	7471A	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	METHOD	8015B	III
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6346976	N	METHOD	8015M	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3050B	6010B	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3050B	6020	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3060A	7199	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8015B	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8015M	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8081A	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8082	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8151A	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8270C	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	3550B	8270C SIM	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	METHOD	300.0	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	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-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	METHOD	7471A	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	METHOD	8015B	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6346975	N	METHOD	8015M	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5DUP	P346975D272135B	DUP	METHOD	314.0	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5MS	P346975R272158B	MS	METHOD	314.0	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3050B	6010B	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3050B	6020	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3060A	7199	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8015B	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8015M	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8081A	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8082	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8151A	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8270C	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	3550B	8270C SIM	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	METHOD	300.0	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	METHOD	314.0	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	METHOD	7471A	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	METHOD	8015B	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346964	N	METHOD	8015M	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3050B	6010B	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3050B	6020	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3060A	7199	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3550B	8015B	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3550B	8015M	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	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-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3550B	8082	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3550B	8151A	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3550B	8270C	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	3550B	8270C SIM	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	METHOD	300.0	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	METHOD	314.0	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	METHOD	7471A	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	METHOD	8015B	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346965	N	METHOD	8015M	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3050B	6010B	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3050B	6020	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3060A	7199	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3550B	8015M	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3550B	8081A	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3550B	8082	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3550B	8151A	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3550B	8270C	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	3550B	8270C SIM	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	METHOD	300.0	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	METHOD	314.0	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	METHOD	7471A	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	METHOD	8015B	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6346967	N	METHOD	8015M	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3050B	6010B	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3050B	6020	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	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
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8015B	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8015M	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8081A	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8082	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8151A	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8270C	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	3550B	8270C SIM	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	METHOD	300.0	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	METHOD	314.0	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	METHOD	7471A	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	METHOD	8015B	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6346968	N	METHOD	8015M	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3050B	6010B	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3050B	6020	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3060A	7199	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8015B	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8015M	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8081A	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8082	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8151A	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8270C	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	3550B	8270C SIM	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	METHOD	300.0	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	METHOD	314.0	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	METHOD	7471A	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	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
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6346969	N	METHOD	8015M	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3050B	6010B	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3050B	6020	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3060A	7199	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3550B	8081A	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3550B	8082	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3550B	8151A	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3550B	8270C	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	3550B	8270C SIM	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	METHOD	300.0	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	METHOD	314.0	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346961	N	METHOD	7471A	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3050B	6010B	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3050B	6020	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3060A	7199	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3550B	8081A	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3550B	8082	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3550B	8151A	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3550B	8270C	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	3550B	8270C SIM	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	METHOD	300.0	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	METHOD	314.0	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346960	N	METHOD	7471A	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5DUP	P346960D271829A	DUP	METHOD	300.0	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5MS	P346960R271843A	MS	METHOD	300.0	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	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
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3050B	6020	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3060A	7199	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3550B	8081A	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3550B	8082	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3550B	8151A	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3550B	8270C	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	3550B	8270C SIM	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	METHOD	300.0	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	METHOD	314.0	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346962	N	METHOD	7471A	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3050B	6010B	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3050B	6020	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3060A	7199	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3550B	8081A	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3550B	8082	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3550B	8151A	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3550B	8270C	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	3550B	8270C SIM	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	METHOD	300.0	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	METHOD	314.0	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346963	N	METHOD	7471A	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3050B	6010B	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3050B	6020	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3060A	7199	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3550B	8015B	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	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
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3550B	8081A	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3550B	8082	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3550B	8151A	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3550B	8270C	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	3550B	8270C SIM	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	METHOD	300.0	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	METHOD	314.0	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	METHOD	6850	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	METHOD	7471A	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	METHOD	8015B	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346966	N	METHOD	8015M	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3050B	6010B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3050B	6020	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3060A	7199	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8015B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8015M	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8081A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8082	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8151A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8270C	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	3550B	8270C SIM	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	METHOD	300.0	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	METHOD	314.0	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	METHOD	7471A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	METHOD	8015B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6346970	N	METHOD	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3050B	6010B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3050B	6020	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3060A	7199	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8015B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8015M	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8081A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8082	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8151A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8270C	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	3550B	8270C SIM	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	METHOD	300.0	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	METHOD	314.0	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	METHOD	7471A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	METHOD	8015B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6346971	MS	METHOD	8015M	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3050B	6010B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3050B	6020	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8015B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8015M	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8081A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8082	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8151A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8270C	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	3550B	8270C SIM	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	METHOD	7471A	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	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
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6346972	MSD	METHOD	8015M	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5DUP	6346973	DUP	3050B	6010B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5DUP	6346973	DUP	3050B	6020	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5DUP	6346973	DUP	3060A	7199	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5DUP	6346973	DUP	METHOD	300.0	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5DUP	6346973	DUP	METHOD	314.0	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5DUP	6346973	DUP	METHOD	7471A	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3050B	6010B	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3050B	6020	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3060A	7199	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8015B	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8015M	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8081A	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8082	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8151A	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8270C	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	3550B	8270C SIM	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	METHOD	300.0	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	METHOD	314.0	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	METHOD	7471A	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	METHOD	8015B	III
14-Jul-2011	DUP03-SA6-QC-071511	6346974	FD	METHOD	8015M	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.684	J	0.363	MDL	5.04	PQL	mg/Kg	J	Z
SODIUM	69.9	J	6.00	MDL	101	PQL	mg/Kg	J	Z
TIN	2.52	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.08	J	0.464	MDL	5.04	PQL	mg/Kg	U	B, B

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.545	J	0.351	MDL	4.87	PQL	mg/Kg	J	Z
TIN	2.88	J	0.312	MDL	9.74	PQL	mg/Kg	U	B
Zirconium	2.49	J	0.448	MDL	4.87	PQL	mg/Kg	U	B, B

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.01	J	0.361	MDL	5.02	PQL	mg/Kg	J	Z
SODIUM	68.3	J	5.97	MDL	100	PQL	mg/Kg	J	Z
TIN	5.50	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	0.882	J	0.462	MDL	5.02	PQL	mg/Kg	U	B, B

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.87	J	0.369	MDL	5.12	PQL	mg/Kg	J	Z
SODIUM	91.0	J	6.09	MDL	102	PQL	mg/Kg	J	Z
TIN	3.18	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.72	J	0.471	MDL	5.12	PQL	mg/Kg	U	B, B

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.851	J	0.362	MDL	5.03	PQL	mg/Kg	J	Z
SODIUM	65.8	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.74	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.80	J	0.462	MDL	5.03	PQL	mg/Kg	U	B, 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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.855	J	0.373	MDL	5.18	PQL	mg/Kg	J	Z
TIN	2.30	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.24	J	0.477	MDL	5.18	PQL	mg/Kg	U	B, B

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.805	J	0.357	MDL	4.95	PQL	mg/Kg	J	Z
SODIUM	91.0	J	5.89	MDL	99.1	PQL	mg/Kg	J	Z
TIN	2.65	J	0.317	MDL	9.91	PQL	mg/Kg	U	B
Zirconium	1.60	J	0.456	MDL	4.95	PQL	mg/Kg	U	B, B

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.07	J	0.356	MDL	4.95	PQL	mg/Kg	J	Z
SODIUM	61.4	J	5.89	MDL	98.9	PQL	mg/Kg	J	Z
TIN	2.85	J	0.317	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	1.89	J	0.455	MDL	4.95	PQL	mg/Kg	U	B, B

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.534	J	0.350	MDL	4.85	PQL	mg/Kg	J	Z
SODIUM	60.1	J	5.78	MDL	97.1	PQL	mg/Kg	J	Z
TIN	2.84	J	0.311	MDL	9.71	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.447	MDL	4.85	PQL	mg/Kg	U	B, B

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.729	J	0.353	MDL	4.90	PQL	mg/Kg	J	Z
SODIUM	87.7	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	2.53	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.451	MDL	4.90	PQL	mg/Kg	U	B, 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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.860	J	0.363	MDL	5.04	PQL	mg/Kg	J	Z
SODIUM	63.9	J	6.00	MDL	101	PQL	mg/Kg	J	Z
TIN	2.55	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.48	J	0.464	MDL	5.04	PQL	mg/Kg	U	B, B

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.716	J	0.367	MDL	5.10	PQL	mg/Kg	J	Z
SODIUM	68.4	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.66	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	0.955	J	0.470	MDL	5.10	PQL	mg/Kg	U	B, B

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.41	J	0.372	MDL	5.17	PQL	mg/Kg	J	Z
SODIUM	81.0	J	6.15	MDL	103	PQL	mg/Kg	J	Z
TIN	3.16	J	0.331	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	0.888	J	0.475	MDL	5.17	PQL	mg/Kg	U	B, B

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.53	J	0.369	MDL	5.12	PQL	mg/Kg	J	Z
SODIUM	74.1	J	6.10	MDL	102	PQL	mg/Kg	J	Z
TIN	2.76	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.471	MDL	5.12	PQL	mg/Kg	U	B, 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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, E

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.854		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q, E, E

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.105	MDL	0.395	PQL	mg/Kg	J	E, E

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	8.02		0.0791	MDL	0.395	PQL	mg/Kg	J	E, E
BERYLLIUM	0.649		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q, E
CADMIUM	0.227		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q, E
CHROMIUM	20.1		0.119	MDL	0.395	PQL	mg/Kg	J	Q, Q, E, E
COBALT	8.70		0.0198	MDL	0.0988	PQL	mg/Kg	J	E, E
COPPER	11.2		0.0791	MDL	0.395	PQL	mg/Kg	J	Q, Q, E, E
LEAD	16.8		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	13.8		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0695	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.305		0.0297	MDL	0.0988	PQL	mg/Kg	J	Q, E
VANADIUM	40.4		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q, Q, E, E
ZINC	81.5		0.554	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	206		0.0251	MDL	0.492	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
SELENIUM	0.137	J	0.0571	MDL	0.393	PQL	mg/Kg	J	Z, E

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
MOLYBDENUM	1.25		0.0492	MDL	0.0984	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	121		0.104	MDL	0.393	PQL	mg/Kg	J	E, E

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	0.369		0.0728	MDL	0.197	PQL	mg/Kg	J	Q, E
ARSENIC	6.80		0.0787	MDL	0.393	PQL	mg/Kg	J	E, E
BERYLLIUM	0.961		0.0157	MDL	0.0984	PQL	mg/Kg	J	Q, E
CADMIUM	0.728		0.0433	MDL	0.0984	PQL	mg/Kg	J	Q, E
CHROMIUM	23.3		0.118	MDL	0.393	PQL	mg/Kg	J	Q, Q, E, E
COBALT	6.86		0.0197	MDL	0.0984	PQL	mg/Kg	J	E, E
COPPER	12.8		0.0787	MDL	0.393	PQL	mg/Kg	J	Q, Q, E, E
NICKEL	14.4		0.0984	MDL	0.393	PQL	mg/Kg	J	Q, Q, E
SILVER	0.600		0.0140	MDL	0.0984	PQL	mg/Kg	J	Q, E
THALLIUM	0.345		0.0295	MDL	0.0984	PQL	mg/Kg	J	Q, E
VANADIUM	45.4		0.0216	MDL	0.0984	PQL	mg/Kg	J	Q, Q, E, E
ZINC	176		0.551	MDL	2.95	PQL	mg/Kg	J	E

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	66.7		0.0254	MDL	0.497	PQL	mg/Kg	J	E
ZINC	226		1.39	MDL	7.46	PQL	mg/Kg	J	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z, E

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.14		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.105	MDL	0.398	PQL	mg/Kg	J	E, E

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.268		0.0736	MDL	0.199	PQL	mg/Kg	J	Q, E
ARSENIC	5.54		0.0795	MDL	0.398	PQL	mg/Kg	J	E, E
BERYLLIUM	0.601		0.0159	MDL	0.0994	PQL	mg/Kg	J	Q, E
CADMIUM	0.974		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q, E
CHROMIUM	30.9		0.119	MDL	0.398	PQL	mg/Kg	J	Q, Q, E, E
COBALT	6.98		0.0199	MDL	0.0994	PQL	mg/Kg	J	E, E
COPPER	21.2		0.0795	MDL	0.398	PQL	mg/Kg	J	Q, Q, E, E
NICKEL	18.9		0.0994	MDL	0.398	PQL	mg/Kg	J	Q, Q, E
SILVER	0.309		0.0141	MDL	0.0994	PQL	mg/Kg	J	Q, E
THALLIUM	0.333		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q, E
VANADIUM	41.7		0.0219	MDL	0.0994	PQL	mg/Kg	J	Q, Q, E, E

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	90.8		0.0259	MDL	0.507	PQL	mg/Kg	J	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* REA2 *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	687		2.84	MDL	15.2	PQL	mg/Kg	J	E

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z, E

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.50		0.0507	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.9		0.107	MDL	0.406	PQL	mg/Kg	J	E, E

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.507		0.0750	MDL	0.203	PQL	mg/Kg	J	Q, E
ARSENIC	4.12		0.0811	MDL	0.406	PQL	mg/Kg	J	E, E
BERYLLIUM	0.611		0.0162	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	1.46		0.0446	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	59.1		0.122	MDL	0.406	PQL	mg/Kg	J	Q, Q, E, E
COBALT	5.42		0.0203	MDL	0.101	PQL	mg/Kg	J	E, E
COPPER	46.2		0.0811	MDL	0.406	PQL	mg/Kg	J	Q, Q, E, E
NICKEL	16.9		0.101	MDL	0.406	PQL	mg/Kg	J	Q, Q, E
SILVER	0.149		0.0144	MDL	0.101	PQL	mg/Kg	J	Q, E
THALLIUM	0.243		0.0304	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	30.3		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, Q, E, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.285	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z, E

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.986		0.0498	MDL	0.0995	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.106	MDL	0.398	PQL	mg/Kg	J	E, E

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.247		0.0737	MDL	0.199	PQL	mg/Kg	J	Q, E
ARSENIC	5.81		0.0796	MDL	0.398	PQL	mg/Kg	J	E, E
BERYLLIUM	0.729		0.0159	MDL	0.0995	PQL	mg/Kg	J	Q, E
CADMIUM	0.397		0.0438	MDL	0.0995	PQL	mg/Kg	J	Q, E
CHROMIUM	24.4		0.119	MDL	0.398	PQL	mg/Kg	J	Q, Q, E, E
COBALT	7.91		0.0199	MDL	0.0995	PQL	mg/Kg	J	E, E
COPPER	15.3		0.0796	MDL	0.398	PQL	mg/Kg	J	Q, Q, E, E
LEAD	56.7		0.0102	MDL	0.199	PQL	mg/Kg	J	E
NICKEL	17.9		0.0995	MDL	0.398	PQL	mg/Kg	J	Q, Q, E
SILVER	0.163		0.0141	MDL	0.0995	PQL	mg/Kg	J	Q, E
THALLIUM	0.399		0.0299	MDL	0.0995	PQL	mg/Kg	J	Q, E
VANADIUM	46.4		0.0219	MDL	0.0995	PQL	mg/Kg	J	Q, Q, E, E
ZINC	136		0.557	MDL	2.99	PQL	mg/Kg	J	E

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.570		0.0513	MDL	0.103	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.109	MDL	0.411	PQL	mg/Kg	J	E, E

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0760	MDL	0.205	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.29		0.0821	MDL	0.411	PQL	mg/Kg	J	E, E
BERYLLIUM	0.532		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.343		0.0452	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	18.0		0.123	MDL	0.411	PQL	mg/Kg	J	Q, Q, E, E
COBALT	6.11		0.0205	MDL	0.103	PQL	mg/Kg	J	E, E
COPPER	12.5		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, Q, E, E
LEAD	22.2		0.0105	MDL	0.205	PQL	mg/Kg	J	E
NICKEL	11.8		0.103	MDL	0.411	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0580	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.276		0.0308	MDL	0.103	PQL	mg/Kg	J	Q, E
VANADIUM	35.0		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, Q, E, E
ZINC	75.3		0.575	MDL	3.08	PQL	mg/Kg	J	E

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.142	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z, E

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.951		0.0491	MDL	0.0981	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.104	MDL	0.392	PQL	mg/Kg	J	E, E

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0726	MDL	0.196	PQL	mg/Kg	J	Z, Q, E
ARSENIC	4.65		0.0785	MDL	0.392	PQL	mg/Kg	J	E, E
BERYLLIUM	0.534		0.0157	MDL	0.0981	PQL	mg/Kg	J	Q, E
CADMIUM	0.423		0.0432	MDL	0.0981	PQL	mg/Kg	J	Q, E
CHROMIUM	19.5		0.118	MDL	0.392	PQL	mg/Kg	J	Q, Q, E, E
COBALT	6.86		0.0196	MDL	0.0981	PQL	mg/Kg	J	E, E
COPPER	15.7		0.0785	MDL	0.392	PQL	mg/Kg	J	Q, Q, E, E
LEAD	11.5		0.0100	MDL	0.196	PQL	mg/Kg	J	E
NICKEL	12.1		0.0981	MDL	0.392	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0371	J	0.0139	MDL	0.0981	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.249		0.0294	MDL	0.0981	PQL	mg/Kg	J	Q, E
VANADIUM	41.2		0.0216	MDL	0.0981	PQL	mg/Kg	J	Q, Q, E, E
ZINC	105		0.549	MDL	2.94	PQL	mg/Kg	J	E

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
SELENIUM	0.179	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, E

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
MOLYBDENUM	0.871		0.0495	MDL	0.0989	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	143		0.105	MDL	0.396	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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	0.184	J	0.0732	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.82		0.0792	MDL	0.396	PQL	mg/Kg	J	E, E
BERYLLIUM	0.776		0.0158	MDL	0.0989	PQL	mg/Kg	J	Q, E
CADMIUM	0.320		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q, E
CHROMIUM	25.0		0.119	MDL	0.396	PQL	mg/Kg	J	Q, Q, E, E
COBALT	8.08		0.0198	MDL	0.0989	PQL	mg/Kg	J	E, E
COPPER	12.1		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, Q, E, E
LEAD	16.6		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	17.5		0.0989	MDL	0.396	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0606	J	0.0140	MDL	0.0989	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.398		0.0297	MDL	0.0989	PQL	mg/Kg	J	Q, E
VANADIUM	47.9		0.0218	MDL	0.0989	PQL	mg/Kg	J	Q, Q, E, E
ZINC	102		0.554	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.285	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, E

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.698		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.7		0.105	MDL	0.396	PQL	mg/Kg	J	E, E

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.166	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	9.82		0.0792	MDL	0.396	PQL	mg/Kg	J	E, E
BERYLLIUM	0.783		0.0158	MDL	0.0990	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.266		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q, E
CHROMIUM	19.9		0.119	MDL	0.396	PQL	mg/Kg	J	Q, Q, E, E
COBALT	6.70		0.0198	MDL	0.0990	PQL	mg/Kg	J	E, E
COPPER	10.3		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, Q, E, E
LEAD	12.1		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	13.7		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0525	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.384		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q, E
VANADIUM	38.0		0.0218	MDL	0.0990	PQL	mg/Kg	J	Q, Q, E, E
ZINC	90.1		0.554	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0568	MDL	0.392	PQL	mg/Kg	J	Z, E

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.958		0.0490	MDL	0.0980	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.104	MDL	0.392	PQL	mg/Kg	J	E, E

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.224		0.0725	MDL	0.196	PQL	mg/Kg	J	Q, E
ARSENIC	6.40		0.0784	MDL	0.392	PQL	mg/Kg	J	E, E
BERYLLIUM	0.669		0.0157	MDL	0.0980	PQL	mg/Kg	J	Q, E
CADMIUM	0.240		0.0431	MDL	0.0980	PQL	mg/Kg	J	Q, E
CHROMIUM	25.5		0.118	MDL	0.392	PQL	mg/Kg	J	Q, Q, E, E
COBALT	7.56		0.0196	MDL	0.0980	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.7		0.0784	MDL	0.392	PQL	mg/Kg	J	Q, Q, E, E
LEAD	49.5		0.010	MDL	0.196	PQL	mg/Kg	J	E
NICKEL	18.8		0.0980	MDL	0.392	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0610	J	0.0139	MDL	0.0980	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.270		0.0294	MDL	0.0980	PQL	mg/Kg	J	Q, E
VANADIUM	42.9		0.0216	MDL	0.0980	PQL	mg/Kg	J	Q, Q, E, E
ZINC	97.0		0.549	MDL	2.94	PQL	mg/Kg	J	E

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.178		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q, E

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z, E

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
MOLYBDENUM	0.705		0.0495	MDL	0.0989	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.4		0.105	MDL	0.396	PQL	mg/Kg	J	E, E

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	0.179	J	0.0732	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	8.23		0.0791	MDL	0.396	PQL	mg/Kg	J	E, E
BERYLLIUM	0.638		0.0158	MDL	0.0989	PQL	mg/Kg	J	Q, E
CHROMIUM	19.3		0.119	MDL	0.396	PQL	mg/Kg	J	Q, Q, E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: PrepDE201_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
COBALT	6.90		0.0198	MDL	0.0989	PQL	mg/Kg	J	E, E
COPPER	10.7		0.0791	MDL	0.396	PQL	mg/Kg	J	Q, Q, E, E
LEAD	16.9		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	13.4		0.0989	MDL	0.396	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0739	J	0.0140	MDL	0.0989	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.316		0.0297	MDL	0.0989	PQL	mg/Kg	J	Q, E
VANADIUM	38.7		0.0218	MDL	0.0989	PQL	mg/Kg	J	Q, Q, E, E
ZINC	80.4		0.554	MDL	2.97	PQL	mg/Kg	J	E

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z, E

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.588		0.0500	MDL	0.100	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	74.9		0.106	MDL	0.400	PQL	mg/Kg	J	E, E

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q, E
ARSENIC	2.97		0.0801	MDL	0.400	PQL	mg/Kg	J	E, E
BERYLLIUM	0.384		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.777		0.0440	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	10.6		0.120	MDL	0.400	PQL	mg/Kg	J	Q, Q, E, E
COBALT	3.92		0.0200	MDL	0.100	PQL	mg/Kg	J	E, E
COPPER	9.40		0.0801	MDL	0.400	PQL	mg/Kg	J	Q, Q, E, E
LEAD	40.3		0.0102	MDL	0.200	PQL	mg/Kg	J	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: DE201 Laboratory: LL

EDD Filename: PrepDE201_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	7.47		0.100	MDL	0.400	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0349	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.226		0.0300	MDL	0.100	PQL	mg/Kg	J	Q, E
VANADIUM	23.0		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, Q, E, E
ZINC	140		0.561	MDL	3.00	PQL	mg/Kg	J	E

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	160		1.43	MDL	7.67	PQL	mg/Kg	J	E

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
SELENIUM	0.215	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z, E

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
MOLYBDENUM	0.944		0.0511	MDL	0.102	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.108	MDL	0.409	PQL	mg/Kg	J	E, E

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	0.205		0.0757	MDL	0.205	PQL	mg/Kg	J	Q, E
ARSENIC	4.52		0.0818	MDL	0.409	PQL	mg/Kg	J	E, E
BERYLLIUM	0.635		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	1.43		0.0450	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	17.7		0.123	MDL	0.409	PQL	mg/Kg	J	Q, Q, E, E
COBALT	5.86		0.0205	MDL	0.102	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
COPPER	11.5		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, Q, E, E
LEAD	44.1		0.0104	MDL	0.205	PQL	mg/Kg	J	E
NICKEL	13.4		0.102	MDL	0.409	PQL	mg/Kg	J	Q, Q, E
SILVER	0.197		0.0145	MDL	0.102	PQL	mg/Kg	J	Q, E
THALLIUM	0.301		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	33.8		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, Q, E, E

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.177	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, E

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.665		0.0503	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	105		0.107	MDL	0.402	PQL	mg/Kg	J	E, E

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.161	J	0.0744	MDL	0.201	PQL	mg/Kg	J	Z, Q, E
ARSENIC	3.59		0.0804	MDL	0.402	PQL	mg/Kg	J	E, E
BERYLLIUM	0.528		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.574		0.0442	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	14.8		0.121	MDL	0.402	PQL	mg/Kg	J	Q, Q, E, E
COBALT	4.81		0.0201	MDL	0.101	PQL	mg/Kg	J	E, E
COPPER	9.28		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, Q, E, E
LEAD	27.5		0.0103	MDL	0.201	PQL	mg/Kg	J	E
NICKEL	10.9		0.101	MDL	0.402	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0670	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, 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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.287		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	28.3		0.0221	MDL	0.101	PQL	mg/Kg	J	Q, Q, E, E
ZINC	135		0.563	MDL	3.02	PQL	mg/Kg	J	E

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

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.95	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.75	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.93	J	0.20	MDL	1.0	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: DE201 Laboratory: LL

EDD Filename: PrepDE201_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 Matrix: SO

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0339	J	0.0068	MDL	0.0970	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0840	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0412	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0172	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0201	J	0.0073	MDL	0.104	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0374	J	0.0069	MDL	0.0979	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0103	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0314	J	0.0067	MDL	0.0957	PQL	mg/Kg	J	Z

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0070	MDL	0.0994	PQL	mg/Kg	J	Z

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0263	J	0.0070	MDL	0.0993	PQL	mg/Kg	J	Z

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0275	J	0.0070	MDL	0.0999	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.3	J	2.0	MDL	6.0	PQL	mg/Kg	J	Z
EFH (C21-C30)	23		2.0	MDL	6.0	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	84		2.0	MDL	6.0	PQL	mg/Kg	J	FD
EFH (C8-C11)	2.0	U	2.0	MDL	6.0	PQL	mg/Kg	UJ	FD

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.48	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.3	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.8		0.40	MDL	1.2	PQL	mg/Kg	J	Q
EFH (C21-C30)	11		0.40	MDL	1.2	PQL	mg/Kg	J	FD
EFH (C30-C40)	31		0.40	MDL	1.2	PQL	mg/Kg	J	FD
EFH (C8-C11)	0.44	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z, FD

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
Chlordane	2.2	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *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	4.8		0.33	MDL	1.7	PQL	ug/Kg	J	L

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	6.8		0.81	MDL	3.4	PQL	ug/Kg	J	S

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* DL2-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	6.5		0.68	MDL	3.5	PQL	ug/Kg	J	L
Chlordane	18	J	8.2	MDL	35	PQL	ug/Kg	J	Z

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.096	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z, L
DELTA-BHC	0.040	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z, L
ENDRIN ALDEHYDE	0.21	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z
MIREX	0.27	J	0.069	MDL	0.35	PQL	ug/Kg	J	Z

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.044	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:22:00 *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'-DDE	0.67	U	0.67	MDL	3.4	PQL	ug/Kg	UJ	H
4,4'-DDT	19		0.67	MDL	3.4	PQL	ug/Kg	J	H
DIELDRIN	3.3	J	0.67	MDL	3.4	PQL	ug/Kg	J	Z, H

* 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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-056-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 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'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	H
DELTA-BHC	0.037	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, H
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	2.2	U	2.2	MDL	2.2	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.71		0.034	MDL	0.17	PQL	ug/Kg	J	H
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	H

Sample ID: SL-058-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 3:02:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.043	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-126-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 2:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.1	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	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: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.3	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	1.2		0.068	MDL	0.35	PQL	ug/Kg	J	L, S
Chlordane	3.3	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z, S

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	15		0.33	MDL	1.7	PQL	ug/Kg	J	FD
AROCLOR 1260	7.2		0.39	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	430	J	210	MDL	680	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	7.6	J	5.1	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *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	29		1.7	MDL	8.6	PQL	ug/Kg	J	FD
AROCLOR 1260	2.0	U	2.0	MDL	8.6	PQL	ug/Kg	UJ	FD

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	4.4	J	2.0	MDL	8.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *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	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-004-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.085	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z
2,4-DB	0.64	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.15	J	0.085	MDL	0.18	PQL	ug/Kg	J	Z
2,4-D	2.7	J	1.2	MDL	3.7	PQL	ug/Kg	J	Z
2,4-DB	1.0	J	0.64	MDL	1.8	PQL	ug/Kg	J	Z
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	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: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	150	J	77	MDL	260	PQL	ug/Kg	U	B

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPP	91	J	76	MDL	250	PQL	ug/Kg	U	B

Sample ID: SL-043-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 7:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.3	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-044-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-058-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.99	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.080	J	0.075	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	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: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	0.81	U	0.81	MDL	1.7	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.27	U	0.27	MDL	0.27	PQL	ug/Kg	UJ	S
2,4,5-TP (Silvex)	0.077	U	0.077	MDL	0.18	PQL	ug/Kg	UJ	S
2,4-D	5.2	U	5.2	MDL	5.2	PQL	ug/Kg	UJ	S
2,4-DB	5.8	U	5.8	MDL	5.8	PQL	ug/Kg	UJ	S
DALAPON	4.5	U	4.5	MDL	9.3	PQL	ug/Kg	UJ	S
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	S
DICHLOROPROP	0.82	U	0.82	MDL	1.8	PQL	ug/Kg	UJ	S
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	78	U	78	MDL	260	PQL	ug/Kg	UJ	S
MCPP	1500		77	MDL	260	PQL	ug/Kg	J	S

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.77	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	17	MDL	340	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP03-SA6-QC-071511 *Collected:* 7/14/2011 2:59:00 *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	20	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 10:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	88	J	85	MDL	850	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	280	J	85	MDL	850	PQL	ug/Kg	J	Z
CHRYSENE	170	J	85	MDL	850	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	110	J	85	MDL	850	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 12:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	51	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	85	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	110	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	98	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	29	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	46	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	88	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 1:26:00 *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	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	17	MDL	340	PQL	ug/Kg	J	Z
FLUORANTHENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-056-SA6-SS-0.0-0.5 *Collected:* 7/13/2011 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	22	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-126-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZO(B)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	34	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
CHRYSENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	31	J	17	MDL	350	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP03-SA6-QC-071511 ***Collected:*** 7/14/2011 2:59:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD
ANTHRACENE	2.3		0.34	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)ANTHRACENE	9.1		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	8.0		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	8.9		0.67	MDL	1.7	PQL	ug/Kg	J	FD
Butylbenzylphthalate	8.2	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.95	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	6.0	MDL	18	PQL	ug/Kg	J	Z, FD
NAPHTHALENE	0.68	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-004-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
BENZO(G,H,I)PERYLENE	0.94	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.3	J	6.1	MDL	18	PQL	ug/Kg	J	Z
CHRYSENE	0.43	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-005-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 10:50:00 ***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(K)FLUORANTHENE	77	J	34	MDL	85	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 12:57:00 ***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	5.7	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
NAPHTHALENE	3.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 1:26:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	6.1	J	6.1	MDL	18	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: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-044-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 8:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 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	0.99	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	10	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-058-SA6-SS-0.0-0.5 ***Collected:*** 7/13/2011 3:02:00 ***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	0.65	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.82	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-126-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 2:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.9	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5 ***Collected:*** 7/14/2011 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
ACENAPHTHYLENE	0.57	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD
ANTHRACENE	1.0	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	4.6		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(A)PYRENE	4.5		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BENZO(K)FLUORANTHENE	4.5		0.67	MDL	1.7	PQL	ug/Kg	J	FD
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.3	J	6.1	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.90	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	18	J	6.1	MDL	18	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory:** LL

EDD Filename: PrepDE201_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 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
NAPHTHALENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD

Sample ID: SL-302-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	0.87	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.4	J	6.2	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.87	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.81	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.48	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.99	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-butylphthalate	7.9	J	6.2	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	1.5	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-286-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 2:54:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	Q

Sample ID: SL-303-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 8:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S

Sample ID: SL-304-SA6-SS-0.0-0.5 *Collected:* 7/14/2011 9:14:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: PrepDE201_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE201

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A **Preparation Method: 3550B**

Matrix: SO

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
SL-056-SA6-SS-0.0-0.5 (RES)	Sampling To Extraction	16.00	14.00	DAYS	J (all detects)
SL-056-SA6-SS-0.0-0.5 (DL)		16.00	14.00	DAYS	UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20008BB220316	7/26/2011 3:16:00 AM	CALCIUM	9.33 mg/Kg	DUP03-SA6-QC-071511
		IRON	5.79 mg/Kg	SL-004-SA6-SS-0.0-0.5
		MAGNESIUM	0.469 mg/Kg	SL-005-SA6-SS-0.0-0.5
		MANGANESE	0.0430 mg/Kg	SL-020-SA6-SS-0.0-0.5
		PHOSPHORUS	1.76 mg/Kg	SL-029-SA6-SS-0.0-0.5
		STRONTIUM	0.0290 mg/Kg	SL-043-SA6-SS-0.0-0.5
		TIN	1.84 mg/Kg	SL-044-SA6-SS-0.0-0.5
		Zirconium	0.568 mg/Kg	SL-056-SA6-SS-0.0-0.5
				SL-058-SA6-SS-0.0-0.5
				SL-126-SA6-SS-0.0-0.5
				SL-286-SA6-SS-0.0-0.5
				SL-302-SA6-SS-0.0-0.5
				SL-303-SA6-SS-0.0-0.5
				SL-304-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA6-QC-071511(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
DUP03-SA6-QC-071511(RES)	Zirconium	2.08 mg/Kg	2.08U mg/Kg
SL-004-SA6-SS-0.0-0.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-004-SA6-SS-0.0-0.5(RES)	Zirconium	2.49 mg/Kg	2.49U mg/Kg
SL-005-SA6-SS-0.0-0.5(RES)	TIN	5.50 mg/Kg	5.50U mg/Kg
SL-005-SA6-SS-0.0-0.5(RES)	Zirconium	0.882 mg/Kg	0.882U mg/Kg
SL-020-SA6-SS-0.0-0.5(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-020-SA6-SS-0.0-0.5(RES)	Zirconium	1.72 mg/Kg	1.72U mg/Kg
SL-029-SA6-SS-0.0-0.5(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-029-SA6-SS-0.0-0.5(RES)	Zirconium	1.80 mg/Kg	1.80U mg/Kg
SL-043-SA6-SS-0.0-0.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-043-SA6-SS-0.0-0.5(RES)	Zirconium	2.24 mg/Kg	2.24U mg/Kg
SL-044-SA6-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-044-SA6-SS-0.0-0.5(RES)	Zirconium	1.60 mg/Kg	1.60U mg/Kg
SL-056-SA6-SS-0.0-0.5(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-056-SA6-SS-0.0-0.5(RES)	Zirconium	1.89 mg/Kg	1.89U mg/Kg
SL-058-SA6-SS-0.0-0.5(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-058-SA6-SS-0.0-0.5(RES)	Zirconium	1.75 mg/Kg	1.75U mg/Kg
SL-126-SA6-SS-0.0-0.5(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-126-SA6-SS-0.0-0.5(RES)	Zirconium	1.95 mg/Kg	1.95U mg/Kg
SL-286-SA6-SS-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-286-SA6-SS-0.0-0.5(RES)	Zirconium	2.48 mg/Kg	2.48U mg/Kg
SL-302-SA6-SS-0.0-0.5(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-302-SA6-SS-0.0-0.5(RES)	Zirconium	0.955 mg/Kg	0.955U mg/Kg
SL-303-SA6-SS-0.0-0.5(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-303-SA6-SS-0.0-0.5(RES)	Zirconium	0.888 mg/Kg	0.888U mg/Kg
SL-304-SA6-SS-0.0-0.5(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-304-SA6-SS-0.0-0.5(RES)	Zirconium	1.30 mg/Kg	1.30U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P02029AB321945A	7/27/2011 7:45:00 PM	EFH (C21-C30) EFH (C30-C40)	0.41 mg/Kg 1.0 mg/Kg	DUP03-SA6-QC-071511 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P06062AB241611A	7/27/2011 4:11:00 PM	MCPP	150 ug/Kg	DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-020-SA6-SS-0.0-0.5(RES)	MCPP	150 ug/Kg	260U ug/Kg
SL-029-SA6-SS-0.0-0.5(RES)	MCPP	91 ug/Kg	250U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_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-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	15 41 55	25 51 -	59.00-109.00 63.00-107.00 63.00-107.00	46 (20.00) 22 (20.00) -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	129 - 244 -	127 142 180 243	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40)	J(all detects) EFH (C21-C30) and EFH (C30-C40), No Qual, >4x

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	4,4'-DDE 4,4'-DDT DIELDRIN	218 - 181	211 223 -	18.00-161.00 10.00-176.00 19.00-154.00	- - -	4,4'-DDE 4,4'-DDT DIELDRIN	J(all detects) 4,4'-DDT, No Qual, >4x
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	ENDRIN	0	0	11.00-149.00	-	ENDRIN	J(all detects) R(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-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	AROCLOR 1260	-	195	39.00-149.00	-	AROCLOR 1260	No Qual, Diluted Out

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	DICHLOROPROP	-	0	33.00-178.00	200 (50.00)	DICHLOROPROP	J(all detects) R(all non-detects)
SL-286-SA6-SS-0.0-0.5MS (SL-286-SA6-SS-0.0-0.5)	DINOSEB	8	-	10.00-46.00	-	DINOSEB	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-286-SA6-SS-0.0-0.5MS (SL-286-SA6-SS-0.0-0.5)	m-Terphenyl	72	-	75.00-125.00	-	m-Terphenyl	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_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-286-SA6-SS-0.0-0.5MS	ARSENIC	9	133	75.00-125.00	25 (20.00)	ARSENIC	
SL-286-SA6-SS-0.0-0.5MSD	LEAD	-31	141	75.00-125.00	28 (20.00)	LEAD	
(DUP03-SA6-QC-071511	ZINC	-78	126	75.00-125.00	24 (20.00)	ZINC	
SL-004-SA6-SS-0.0-0.5							
SL-005-SA6-SS-0.0-0.5							J(all detects)
SL-020-SA6-SS-0.0-0.5							UJ(all non-detects)
SL-029-SA6-SS-0.0-0.5							
SL-043-SA6-SS-0.0-0.5							
SL-044-SA6-SS-0.0-0.5							
SL-056-SA6-SS-0.0-0.5							
SL-058-SA6-SS-0.0-0.5							
SL-126-SA6-SS-0.0-0.5							No Qual, %R, >4x
SL-286-SA6-SS-0.0-0.5							
SL-302-SA6-SS-0.0-0.5							
SL-303-SA6-SS-0.0-0.5							
SL-304-SA6-SS-0.0-0.5)							
SL-286-SA6-SS-0.0-0.5MS	ANTIMONY	30	52	75.00-125.00	38 (20.00)	ANTIMONY	
SL-286-SA6-SS-0.0-0.5MSD	BERYLLIUM	-	133	75.00-125.00	29 (20.00)	BERYLLIUM	
(DUP03-SA6-QC-071511	CADMIUM	-	141	75.00-125.00	29 (20.00)	CADMIUM	
SL-004-SA6-SS-0.0-0.5	CHROMIUM	63	130	75.00-125.00	23 (20.00)	CHROMIUM	
SL-005-SA6-SS-0.0-0.5	COBALT	-	-	75.00-125.00	23 (20.00)	COBALT	
SL-020-SA6-SS-0.0-0.5	COPPER	73	137	75.00-125.00	30 (20.00)	COPPER	
SL-029-SA6-SS-0.0-0.5	NICKEL	71	137	75.00-125.00	27 (20.00)	NICKEL	
SL-043-SA6-SS-0.0-0.5	SILVER	-	129	75.00-125.00	21 (20.00)	SILVER	J(all detects)
SL-044-SA6-SS-0.0-0.5	THALLIUM	-	126	75.00-125.00	27 (20.00)	THALLIUM	UJ(all non-detects)
SL-056-SA6-SS-0.0-0.5	VANADIUM	30	155	75.00-125.00	26 (20.00)	VANADIUM	
SL-058-SA6-SS-0.0-0.5							
SL-126-SA6-SS-0.0-0.5							
SL-286-SA6-SS-0.0-0.5							
SL-302-SA6-SS-0.0-0.5							
SL-303-SA6-SS-0.0-0.5							
SL-304-SA6-SS-0.0-0.5)							
SL-286-SA6-SS-0.0-0.5MSD	SELENIUM	-	-	75.00-125.00	21 (20.00)	SELENIUM	
(DUP03-SA6-QC-071511							
SL-004-SA6-SS-0.0-0.5							
SL-005-SA6-SS-0.0-0.5							
SL-020-SA6-SS-0.0-0.5							
SL-029-SA6-SS-0.0-0.5							
SL-043-SA6-SS-0.0-0.5							
SL-044-SA6-SS-0.0-0.5							J(all detects)
SL-056-SA6-SS-0.0-0.5							UJ(all non-detects)
SL-058-SA6-SS-0.0-0.5							
SL-126-SA6-SS-0.0-0.5							
SL-286-SA6-SS-0.0-0.5							
SL-302-SA6-SS-0.0-0.5							
SL-303-SA6-SS-0.0-0.5							
SL-304-SA6-SS-0.0-0.5)							
SL-286-SA6-SS-0.0-0.5MSD	MOLYBDENUM	-	130	75.00-125.00	24 (20.00)	MOLYBDENUM	
(DUP03-SA6-QC-071511							
SL-004-SA6-SS-0.0-0.5							
SL-005-SA6-SS-0.0-0.5							
SL-020-SA6-SS-0.0-0.5							
SL-029-SA6-SS-0.0-0.5							
SL-043-SA6-SS-0.0-0.5							
SL-044-SA6-SS-0.0-0.5							J(all detects)
SL-056-SA6-SS-0.0-0.5							UJ(all non-detects)
SL-058-SA6-SS-0.0-0.5							
SL-126-SA6-SS-0.0-0.5							
SL-286-SA6-SS-0.0-0.5							
SL-302-SA6-SS-0.0-0.5							
SL-303-SA6-SS-0.0-0.5							
SL-304-SA6-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_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-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	BARIUM	-121	167	75.00-125.00	29 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual, %R, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-286-SA6-SS-0.0-0.5MS	ALUMINUM	1588	1175	75.00-125.00	-	ALUMINUM	
SL-286-SA6-SS-0.0-0.5MSD	CALCIUM	142	259	75.00-125.00	-	CALCIUM	
(DUP03-SA6-QC-071511	MAGNESIUM	154	-	75.00-125.00	-	MAGNESIUM	
SL-004-SA6-SS-0.0-0.5	TITANIUM	250	173	75.00-125.00	-	TITANIUM	
SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)							No Qual, >4x
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	IRON	1128	-1071	75.00-125.00	-	IRON	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_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-286-SA6-SS-0.0-0.5MS (DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	MANGANESE	59	-	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	BENZOIC ACID	-	-	10.00-173.00	54 (30.00)	BENZOIC ACID	J(all detects)
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL	15	-	20.00-143.00	55 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-286-SA6-SS-0.0-0.5DUP	BORON	22	20.00	
(DUP03-SA6-QC-071511	Zirconium	22	20.00	
SL -004-SA6-SS-0.0-0.5				
SL -005-SA6-SS-0.0-0.5				
SL -020-SA6-SS-0.0-0.5				
SL -029-SA6-SS-0.0-0.5				
SL -043-SA6-SS-0.0-0.5				
SL -044-SA6-SS-0.0-0.5				No Qual, OK by Difference
SL -056-SA6-SS-0.0-0.5				
SL -058-SA6-SS-0.0-0.5				
SL -126-SA6-SS-0.0-0.5				
SL -286-SA6-SS-0.0-0.5				
SL -302-SA6-SS-0.0-0.5				
SL -303-SA6-SS-0.0-0.5				
SL -304-SA6-SS-0.0-0.5)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-286-SA6-SS-0.0-0.5DUP	ANTIMONY	22	20.00	
(DUP03-SA6-QC-071511	ARSENIC	23	20.00	
SL -004-SA6-SS-0.0-0.5	BARIUM	22	20.00	J(all detects) UJ(all non-detects)
SL -005-SA6-SS-0.0-0.5	CADMIUM	34	20.00	
SL -020-SA6-SS-0.0-0.5	CHROMIUM	32	20.00	
SL -029-SA6-SS-0.0-0.5	COBALT	23	20.00	
SL -043-SA6-SS-0.0-0.5	COPPER	21	20.00	Sb, Cd, Se, No Qual, OK by Difference
SL -044-SA6-SS-0.0-0.5	MOLYBDENUM	24	20.00	
SL -056-SA6-SS-0.0-0.5	SELENIUM	24	20.00	
SL -058-SA6-SS-0.0-0.5	VANADIUM	21	20.00	
SL -126-SA6-SS-0.0-0.5				
SL -286-SA6-SS-0.0-0.5				
SL -302-SA6-SS-0.0-0.5				
SL -303-SA6-SS-0.0-0.5				
SL -304-SA6-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-286-SA6-SS-0.0-0.5DUP (DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	MERCURY	30	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-004-SA6-SS-0.0-0.5DUP (SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	FLUORIDE	43	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. 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
P11992AQ320759A (SL-043-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	145 143 133	- - -	75.00-125.00 65.00-122.00 75.00-125.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects)

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12047AQ240106A (DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	4,4'-DDE DELTA-BHC	149 147	- -	59.00-141.00 55.00-144.00	- -	4,4'-DDE DELTA-BHC	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12062AQ241638A (DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5)	DINOSEB	4	-	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
P12105AQ240107A (SL-056-SA6-SS-0.0-0.5)	ENDOSULFAN II	128	-	63.00-127.00	-	ENDOSULFAN II	J(all detects)

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20026AQ221005A	CHROMIUM	122	-	80.00-120.00	-	CHROMIUM	
(DUP03-SA6-QC-071511	VANADIUM	124	-	80.00-120.00	-	VANADIUM	
SL-004-SA6-SS-0.0-0.5							
SL-005-SA6-SS-0.0-0.5							
SL-020-SA6-SS-0.0-0.5							
SL-029-SA6-SS-0.0-0.5							
SL-043-SA6-SS-0.0-0.5							
SL-044-SA6-SS-0.0-0.5							No Qual, SRM within QC Limits
SL-056-SA6-SS-0.0-0.5							
SL-058-SA6-SS-0.0-0.5							
SL-126-SA6-SS-0.0-0.5							
SL-286-SA6-SS-0.0-0.5							
SL-302-SA6-SS-0.0-0.5							
SL-303-SA6-SS-0.0-0.5							
SL-304-SA6-SS-0.0-0.5)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20008BQ220320	ALUMINUM	132	-	80.00-120.00	-	ALUMINUM	
(DUP03-SA6-QC-071511	IRON	129	-	80.00-120.00	-	IRON	
SL-004-SA6-SS-0.0-0.5	TITANIUM	157	-	80.00-120.00	-	TITANIUM	
SL-005-SA6-SS-0.0-0.5							
SL-020-SA6-SS-0.0-0.5							
SL-029-SA6-SS-0.0-0.5							
SL-043-SA6-SS-0.0-0.5							
SL-044-SA6-SS-0.0-0.5							No Qual, SRM within QC Limits
SL-056-SA6-SS-0.0-0.5							
SL-058-SA6-SS-0.0-0.5							
SL-126-SA6-SS-0.0-0.5							
SL-286-SA6-SS-0.0-0.5							
SL-302-SA6-SS-0.0-0.5							
SL-303-SA6-SS-0.0-0.5							
SL-304-SA6-SS-0.0-0.5)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP03-SA6-QC-071511	ACETONE	140	42.00-138.00	All Target Analytes	J (all detects)
SL-303-SA6-SS-0.0-0.5	n-Triacontane-d62	0	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)
SL-304-SA6-SS-0.0-0.5	n-Triacontane-d62	27	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-005-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	241	20.00-120.00	All Target Analytes	J(all detects)
SL-020-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	304	20.00-120.00	All Target Analytes	J(all detects)
SL-058-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	207	20.00-120.00	All Target Analytes	J(all detects)
SL-286-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	150	20.00-120.00	All Target Analytes	J(all detects)
SL-302-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	127	20.00-120.00	All Target Analytes	J(all detects)
SL-304-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	124	20.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-302-SA6-SS-0.0-0.5	2,4-Dichlorophenylacetic acid	19	36.00-156.00	All Target Analytes	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%) SL-286-SA6-SS-0.0-0.5	Concentration (%) DUP03-SA6-QC-071511	Sample RPD	eQAPP RPD	Flag
MOISTURE	0.88	0.81	8		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg) SL-286-SA6-SS-0.0-0.5	Concentration (mg/Kg) DUP03-SA6-QC-071511	Sample RPD	eQAPP RPD	Flag
ALUMINUM	12600	14300	13	50.00	No Qualifiers Applied
BORON	0.860	0.684	23	50.00	
CALCIUM	2360	2690	13	50.00	
IRON	19400	21000	8	50.00	
LITHIUM	21.7	24.8	13	50.00	
MAGNESIUM	4140	4570	10	50.00	
MANGANESE	267	271	1	50.00	
PHOSPHORUS	322	385	18	50.00	
POTASSIUM	2750	3060	11	50.00	
SODIUM	63.9	69.9	9	50.00	
STRONTIUM	12.5	14.2	13	50.00	
TIN	2.55	2.52	1	50.00	
TITANIUM	963	1080	11	50.00	
Zirconium	2.48	2.08	18	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-286-SA6-SS-0.0-0.5	Concentration (mg/Kg) DUP03-SA6-QC-071511	Sample RPD	eQAPP RPD	Flag
ANTIMONY	0.179	0.180	1	50.00	No Qualifiers Applied
ARSENIC	8.23	8.02	3	50.00	
BARIUM	97.4	101	4	50.00	
BERYLLIUM	0.638	0.649	2	50.00	
CADMIUM	0.178	0.227	24	50.00	
CHROMIUM	19.3	20.1	4	50.00	
COBALT	6.90	8.70	23	50.00	
COPPER	10.7	11.2	5	50.00	
LEAD	16.9	16.8	1	50.00	
MOLYBDENUM	0.705	0.854	19	50.00	
NICKEL	13.4	13.8	3	50.00	
SELENIUM	0.126	0.134	6	50.00	
SILVER	0.0739	0.0695	6	50.00	
THALLIUM	0.316	0.305	4	50.00	
VANADIUM	38.7	40.4	4	50.00	
ZINC	80.4	81.5	1	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-286-SA6-SS-0.0-0.5	Concentration (mg/Kg) DUP03-SA6-QC-071511	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.66	0.66	0	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE201 Laboratory: LL

EDD Filename: DE201_v2. eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
MERCURY	0.0314	0.0339	8	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
EFH (C15-C20)	1.8	2.3	24	50.00	No Qualifiers Applied
EFH (C21-C30)	11	23	71	50.00	J(all detects) UJ(all non-detects)
EFH (C30-C40)	31	84	92	50.00	
EFH (C8-C11)	0.44	6.0 U	200	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
4,4'-DDT	4.1	3.9	5	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
Aroclor 5460	33	24	32	50.00	No Qualifiers Applied
AROCLOR 1254	29	15	64	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	8.6 U	7.2	200	50:00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
BENZO(G,H,I)PERYLENE	4.0	2.9	32	50.00	No Qualifiers Applied
Butylbenzylphthalate	7.3	8.2	12	50.00	
DIBENZO(A,H)ANTHRACENE	0.90	0.95	5	50.00	
INDENO(1,2,3-CD)PYRENE	3.1	3.0	3	50.00	
PHENANTHRENE	5.1	7.8	42	50.00	
ACENAPHTHYLENE	0.57	1.2	71	50.00	J(all detects) UJ(all non-detects)
ANTHRACENE	1.0	2.3	79	50.00	
BENZO(A)ANTHRACENE	4.6	9.1	66	50.00	
BENZO(A)PYRENE	4.5	8.0	56	50.00	
BENZO(K)FLUORANTHENE	4.5	8.9	66	50.00	
Di-n-butylphthalate	18	8.3	74	50.00	
NAPHTHALENE	1.7 U	0.68	200	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
CHRYSENE	19	20	5	50.00	No Qualifiers Applied
PYRENE	30	31	3	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
PH	7.01	6.95	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	BORON	J	0.684	5.04	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.9	101	PQL	mg/Kg	
	TIN	J	2.52	10.1	PQL	mg/Kg	
	Zirconium	J	2.08	5.04	PQL	mg/Kg	
SL-004-SA6-SS-0.0-0.5	BORON	J	0.545	4.87	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	9.74	PQL	mg/Kg	
	Zirconium	J	2.49	4.87	PQL	mg/Kg	
SL-005-SA6-SS-0.0-0.5	BORON	J	1.01	5.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.3	100	PQL	mg/Kg	
	TIN	J	5.50	10.0	PQL	mg/Kg	
	Zirconium	J	0.882	5.02	PQL	mg/Kg	
SL-020-SA6-SS-0.0-0.5	BORON	J	1.87	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.0	102	PQL	mg/Kg	
	TIN	J	3.18	10.2	PQL	mg/Kg	
	Zirconium	J	1.72	5.12	PQL	mg/Kg	
SL-029-SA6-SS-0.0-0.5	BORON	J	0.851	5.03	PQL	mg/Kg	J (all detects)
	SODIUM	J	65.8	101	PQL	mg/Kg	
	TIN	J	2.74	10.1	PQL	mg/Kg	
	Zirconium	J	1.80	5.03	PQL	mg/Kg	
SL-043-SA6-SS-0.0-0.5	BORON	J	0.855	5.18	PQL	mg/Kg	J (all detects)
	TIN	J	2.30	10.4	PQL	mg/Kg	
	Zirconium	J	2.24	5.18	PQL	mg/Kg	
SL-044-SA6-SS-0.0-0.5	BORON	J	0.805	4.95	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.0	99.1	PQL	mg/Kg	
	TIN	J	2.65	9.91	PQL	mg/Kg	
	Zirconium	J	1.60	4.95	PQL	mg/Kg	
SL-056-SA6-SS-0.0-0.5	BORON	J	1.07	4.95	PQL	mg/Kg	J (all detects)
	SODIUM	J	61.4	98.9	PQL	mg/Kg	
	TIN	J	2.85	9.89	PQL	mg/Kg	
	Zirconium	J	1.89	4.95	PQL	mg/Kg	
SL-058-SA6-SS-0.0-0.5	BORON	J	0.534	4.85	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.1	97.1	PQL	mg/Kg	
	TIN	J	2.84	9.71	PQL	mg/Kg	
	Zirconium	J	1.75	4.85	PQL	mg/Kg	
SL-126-SA6-SS-0.0-0.5	BORON	J	0.729	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.7	98.0	PQL	mg/Kg	
	TIN	J	2.53	9.80	PQL	mg/Kg	
	Zirconium	J	1.95	4.90	PQL	mg/Kg	
SL-286-SA6-SS-0.0-0.5	BORON	J	0.860	5.04	PQL	mg/Kg	J (all detects)
	SODIUM	J	63.9	101	PQL	mg/Kg	
	TIN	J	2.55	10.1	PQL	mg/Kg	
	Zirconium	J	2.48	5.04	PQL	mg/Kg	
SL-302-SA6-SS-0.0-0.5	BORON	J	0.716	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.4	102	PQL	mg/Kg	
	TIN	J	2.66	10.2	PQL	mg/Kg	
	Zirconium	J	0.955	5.10	PQL	mg/Kg	
SL-303-SA6-SS-0.0-0.5	BORON	J	1.41	5.17	PQL	mg/Kg	J (all detects)
	SODIUM	J	81.0	103	PQL	mg/Kg	
	TIN	J	3.16	10.3	PQL	mg/Kg	
	Zirconium	J	0.888	5.17	PQL	mg/Kg	
SL-304-SA6-SS-0.0-0.5	BORON	J	1.53	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	74.1	102	PQL	mg/Kg	
	TIN	J	2.76	10.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.12	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	ANTIMONY	J	0.180	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.134	0.395	PQL	mg/Kg	
	SILVER	J	0.0695	0.0988	PQL	mg/Kg	
SL-004-SA6-SS-0.0-0.5	SELENIUM	J	0.137	0.393	PQL	mg/Kg	J (all detects)
SL-005-SA6-SS-0.0-0.5	SELENIUM	J	0.157	0.398	PQL	mg/Kg	J (all detects)
SL-020-SA6-SS-0.0-0.5	SELENIUM	J	0.157	0.406	PQL	mg/Kg	J (all detects)
SL-029-SA6-SS-0.0-0.5	SELENIUM	J	0.285	0.398	PQL	mg/Kg	J (all detects)
SL-043-SA6-SS-0.0-0.5	ANTIMONY	J	0.102	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.411	PQL	mg/Kg	
	SILVER	J	0.0580	0.103	PQL	mg/Kg	
SL-044-SA6-SS-0.0-0.5	ANTIMONY	J	0.167	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.142	0.392	PQL	mg/Kg	
	SILVER	J	0.0371	0.0981	PQL	mg/Kg	
SL-056-SA6-SS-0.0-0.5	ANTIMONY	J	0.184	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.179	0.396	PQL	mg/Kg	
	SILVER	J	0.0606	0.0989	PQL	mg/Kg	
SL-058-SA6-SS-0.0-0.5	ANTIMONY	J	0.166	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.285	0.396	PQL	mg/Kg	
	SILVER	J	0.0525	0.0990	PQL	mg/Kg	
SL-126-SA6-SS-0.0-0.5	SELENIUM	J	0.114	0.392	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0610	0.0980	PQL	mg/Kg	
SL-286-SA6-SS-0.0-0.5	ANTIMONY	J	0.179	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.126	0.396	PQL	mg/Kg	
	SILVER	J	0.0739	0.0989	PQL	mg/Kg	
SL-302-SA6-SS-0.0-0.5	ANTIMONY	J	0.109	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.131	0.400	PQL	mg/Kg	
	SILVER	J	0.0349	0.100	PQL	mg/Kg	
SL-303-SA6-SS-0.0-0.5	SELENIUM	J	0.215	0.409	PQL	mg/Kg	J (all detects)
SL-304-SA6-SS-0.0-0.5	ANTIMONY	J	0.161	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.177	0.402	PQL	mg/Kg	
	SILVER	J	0.0670	0.101	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	HEXAVALENT CHROMIUM	J	0.66	1.0	PQL	mg/Kg	J (all detects)
SL-004-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.95	1.0	PQL	mg/Kg	J (all detects)
SL-020-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.75	1.0	PQL	mg/Kg	J (all detects)
SL-044-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.54	1.0	PQL	mg/Kg	J (all detects)
SL-126-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.93	1.0	PQL	mg/Kg	J (all detects)
SL-286-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.66	1.0	PQL	mg/Kg	J (all detects)
SL-303-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	MERCURY	J	0.0339	0.0970	PQL	mg/Kg	J (all detects)
SL-004-SA6-SS-0.0-0.5	MERCURY	J	0.0840	0.100	PQL	mg/Kg	J (all detects)
SL-005-SA6-SS-0.0-0.5	MERCURY	J	0.0412	0.0996	PQL	mg/Kg	J (all detects)
SL-029-SA6-SS-0.0-0.5	MERCURY	J	0.0172	0.0991	PQL	mg/Kg	J (all detects)
SL-043-SA6-SS-0.0-0.5	MERCURY	J	0.0201	0.104	PQL	mg/Kg	J (all detects)
SL-044-SA6-SS-0.0-0.5	MERCURY	J	0.0374	0.0979	PQL	mg/Kg	J (all detects)
SL-056-SA6-SS-0.0-0.5	MERCURY	J	0.0103	0.0996	PQL	mg/Kg	J (all detects)
SL-286-SA6-SS-0.0-0.5	MERCURY	J	0.0314	0.0957	PQL	mg/Kg	J (all detects)
SL-302-SA6-SS-0.0-0.5	MERCURY	J	0.0194	0.0994	PQL	mg/Kg	J (all detects)
SL-303-SA6-SS-0.0-0.5	MERCURY	J	0.0263	0.0993	PQL	mg/Kg	J (all detects)
SL-304-SA6-SS-0.0-0.5	MERCURY	J	0.0275	0.0999	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	EFH (C15-C20)	J	2.3	6.0	PQL	mg/Kg	J (all detects)
SL-056-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.48	1.2	PQL	mg/Kg	J (all detects)
SL-126-SA6-SS-0.0-0.5	EFH (C15-C20)	J	2.3	6.1	PQL	mg/Kg	J (all detects)
SL-286-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.44	1.2	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA6-SS-0.0-0.5	Chlordane	J	2.2	3.4	PQL	ug/Kg	J (all detects)
SL-020-SA6-SS-0.0-0.5	Chlordane	J	18	35	PQL	ug/Kg	J (all detects)
SL-043-SA6-SS-0.0-0.5	4,4'-DDE DELTA-BHC ENDRIN ALDEHYDE MIREX	J J J J	0.096 0.040 0.21 0.27	0.35 0.17 0.35 0.35	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-044-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.044	0.17	PQL	ug/Kg	J (all detects)
SL-056-SA6-SS-0.0-0.5	DELTA-BHC DIELDRIN	J J	0.037 3.3	0.17 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-058-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.043	0.17	PQL	ug/Kg	J (all detects)
SL-126-SA6-SS-0.0-0.5	Chlordane	J	3.1	3.4	PQL	ug/Kg	J (all detects)
SL-302-SA6-SS-0.0-0.5	Chlordane	J	3.3	3.5	PQL	ug/Kg	J (all detects)
SL-304-SA6-SS-0.0-0.5	Chlordane	J	3.3	3.5	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA6-SS-0.0-0.5	Aroclor 5460	J	430	680	PQL	ug/Kg	J (all detects)
SL-029-SA6-SS-0.0-0.5	Aroclor 5460	J	7.6	17	PQL	ug/Kg	J (all detects)
SL-044-SA6-SS-0.0-0.5	Aroclor 5460	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-303-SA6-SS-0.0-0.5	AROCLOR 1260	J	4.4	8.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA6-SS-0.0-0.5	2,4,5-TP (Silvex) 2,4-DB	J J	0.085 0.64	0.17 1.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-020-SA6-SS-0.0-0.5	2,4,5-T 2,4-D 2,4-DB MCPP	J J J J	0.15 2.7 1.0 150	0.18 3.7 1.8 260	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-029-SA6-SS-0.0-0.5	MCPP	J	91	250	PQL	ug/Kg	J (all detects)
SL-043-SA6-SS-0.0-0.5	2,4-DB	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-058-SA6-SS-0.0-0.5	2,4-DB	J	0.99	1.7	PQL	ug/Kg	J (all detects)
SL-126-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.080	0.17	PQL	ug/Kg	J (all detects)
SL-304-SA6-SS-0.0-0.5	DICAMBA	J	0.77	1.2	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE PYRENE	J J J	24 20 31	340 170 170	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-005-SA6-SS-0.0-0.5	BENZO(A)PYRENE BENZO(G,H,I)PERYLENE CHRYSENE DIBENZO(A,H)ANTHRACENE	J J J J	88 280 170 110	850 850 850 850	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-020-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE FLUORANTHENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE PYRENE	J J J J J J J J J J J	51 39 85 38 33 20 110 98 29 46 88	170 170 170 170 170 340 170 170 170 170 170	PQL PQL PQL PQL PQL PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	18	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	340	PQL	ug/Kg	
	FLUORANTHENE	J	23	170	PQL	ug/Kg	
	PYRENE	J	21	170	PQL	ug/Kg	
SL-056-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	340	PQL	ug/Kg	J (all detects)
SL-126-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	340	PQL	ug/Kg	J (all detects)
SL-286-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	19	170	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	19	170	PQL	ug/Kg	
	FLUORANTHENE	J	35	170	PQL	ug/Kg	
	PYRENE	J	30	170	PQL	ug/Kg	
SL-302-SA6-SS-0.0-0.5	Di-n-octylphthalate	J	34	170	PQL	ug/Kg	J (all detects)
SL-303-SA6-SS-0.0-0.5	CHRYSENE	J	23	170	PQL	ug/Kg	J (all detects)
	PYRENE	J	31	170	PQL	ug/Kg	
SL-304-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	ACENAPHTHYLENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	8.2	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.95	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.3	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.68	1.7	PQL	ug/Kg	
SL-004-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	0.94	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.3	18	PQL	ug/Kg	
	CHRYSENE	J	0.43	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	11	18	PQL	ug/Kg	
SL-005-SA6-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	77	85	PQL	ug/Kg	J (all detects)
SL-020-SA6-SS-0.0-0.5	ANTHRACENE	J	5.7	8.6	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	3.5	8.6	PQL	ug/Kg	
SL-029-SA6-SS-0.0-0.5	Butylbenzylphthalate	J	6.1	18	PQL	ug/Kg	J (all detects)
SL-044-SA6-SS-0.0-0.5	Di-n-butylphthalate	J	6.2	18	PQL	ug/Kg	J (all detects)
SL-056-SA6-SS-0.0-0.5	ANTHRACENE	J	0.99	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.1	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	10	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-058-SA6-SS-0.0-0.5	ANTHRACENE	J	0.65	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.4	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.82	1.7	PQL	ug/Kg	
SL-126-SA6-SS-0.0-0.5	CHRYSENE	J	1.9	8.4	PQL	ug/Kg	J (all detects)
SL-286-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.57	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.3	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.90	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE201 **Laboratory: LL**

EDD Filename: DE201_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-302-SA6-SS-0.0-0.5	ACENAPHTHENE	J	0.87	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	13	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.4	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-303-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.87	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	11	19	PQL	ug/Kg	
	FLUORENE	J	1.4	1.7	PQL	ug/Kg	
SL-304-SA6-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.81	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.48	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.5	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.99	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	19	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	7.9	19	PQL	ug/Kg	
	FLUORENE	J	1.5	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.83	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.1	1.7	PQL	ug/Kg	

LDC #: 26407A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE201 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-004-SA6-SS-0.0-0.5	11	SL-286-SA6-SS-0.0-0.5	21		31	
2	SL-005-SA6-SS-0.0-0.5	12	DUP03-SA6-QC-071511	22		32	
3	SL-020-SA6-SS-0.0-0.5	13	SL-056-SA6-SS-0.0-0.5	23		33	
4	SL-029-SA6-SS-0.0-0.5	14	SL-058-SA6-SS-0.0-0.5	24		34	
5	SL-043-SA6-SS-0.0-0.5	15	SL-286-SA6-SS-0.0-0.5MS	25		35	
6	SL-044-SA6-SS-0.0-0.5	16	SL-286-SA6-SS-0.0-0.5MSD	26		36	
7	SL-126-SA6-SS-0.0-0.5	17	SL-286-SA6-SS-0.0-0.5DUP	27		37	
8	SL-302-SA6-SS-0.0-0.5	18		28		38	
9	SL-303-SA6-SS-0.0-0.5	19		29		39	
10	SL-304-SA6-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26407A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: MG

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

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Zr	7.9	3.95	2.5	0.88	1.7	1.8	2.2	1.6	1.9	0.96	0.89	1.3	2.5	2.1	1.9	1.8

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE201
Matrix: SOIL Level (low/med): LOW

74x

Background Lab Sample ID: 6346970BKG Matrix Spike Lab Sample ID: 6346971MS Matrix Spike Duplicate Lab Sample ID: 6346972MSD
% Solids for Sample: 99.1
Batch Id(s): P20008B, P20026A, P20011B

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		12628.0293		15740.3799		14953.6485		195.9382	197.8592	MG/KG	1588		1175		5			20	P
Antimony	121	0.1790	B	0.5411		0.7930		1.1989	1.1872	MG/KG	30	N	52	N	38	*	75 - 125	20	MS
Arsenic	75	8.2290		8.4083		10.8585		1.9982	1.9786	MG/KG	9		133		25	*		20	MS
Barium	137	97.4654		85.4023		114.0065		9.9909	9.8930	MG/KG	-121		167		29	*		20	MS
Beryllium	9	0.6381		1.2611		1.6885		0.7993	0.7914	MG/KG	78		133	N	29	*	75 - 125	20	MS
Boron		0.8597	B	194.4687		193.2213		195.9382	197.8592	MG/KG	99		97		1		84 - 115	20	P
Cadmium	111	0.1777		1.1749		1.5746		0.9991	0.9893	MG/KG	100		141	N	29	*	75 - 125	20	MS
Calcium		2358.0525		2914.9873		3381.3953		391.8764	395.7183	MG/KG	142		259		15			20	P
Chromium	52	19.3506		25.6167		32.1719		9.9909	9.8930	MG/KG	63	N	130	N	23	*	75 - 125	20	MS
Cobalt	59	6.8974		53.5912		67.6480		49.9545	49.4648	MG/KG	93		123		23	*	75 - 125	20	MS
Copper	63	10.7279		18.0016		24.2575		9.9909	9.8930	MG/KG	73	N	137	N	30	*	75 - 125	20	MS
Iron		19385.3310		20490.5460		18325.5416		97.9691	98.9296	MG/KG	1128		-1071		11			20	P
Lead	208	16.8715		15.9375		21.0522		2.9973	2.9679	MG/KG	-31		141		28	*		20	MS
Lithium		21.7346		125.5278		123.8668		97.9691	98.9296	MG/KG	106		103		1		82 - 114	20	P
Magnesium		4137.8920		4438.8056		4319.1993		195.9382	197.8592	MG/KG	154		92		3			20	P
Manganese		267.4793		296.3418		305.8715		48.9845	49.4648	MG/KG	59		78		3			20	P
Mercury		0.0314	B	0.2105		0.2021		0.1645	0.1670	MG/KG	109		102		4		65 - 135	20	CV
Molybdenum	98	0.7054		10.7382		13.6107		9.9909	9.8930	MG/KG	100		130	N	24	*	75 - 125	20	MS
Nickel	60	13.4426		20.5213		27.0276		9.9909	9.8930	MG/KG	71	N	137	N	27	*	75 - 125	20	MS
Phosphorus		321.8759		417.9146		412.5314		97.9691	98.9296	MG/KG	98		92		1		75 - 125	20	P
Potassium		2753.9536		3872.8400		3736.8938		979.6910	989.2958	MG/KG	114		99		4		75 - 125	20	P
Selenium	78	0.1264	B	2.0561		2.5306		1.9982	1.9786	MG/KG	97		122		21	*	75 - 125	20	MS
Silver	107	0.0739	B	10.4205		12.8094		9.9909	9.8930	MG/KG	104		129	N	21	*	75 - 125	20	MS
Sodium		63.9102	B	1039.8195		1035.0616		979.6910	989.2958	MG/KG	100		98		0		75 - 125	20	P
Strontium		12.4924		111.7240		113.7354		97.9691	98.9296	MG/KG	101		102		2		75 - 115	20	P
Thallium	203	0.3158		0.6212		0.8144		0.3996	0.3957	MG/KG	76		126	N	27	*	75 - 125	20	MS
Tin		2.5540	B	352.3674		357.0903		391.8764	395.7183	MG/KG	89		90		1		80 - 110	20	P
Titanium		962.8971		1207.3516		1133.6964		97.9691	98.9296	MG/KG	250		173		6			20	P
Vanadium	51	38.7408		41.7820		54.0551		9.9909	9.8930	MG/KG	30	N	155	N	26	*	75 - 125	20	MS
Zinc	66	80.4495		72.6938		92.9344		9.9909	9.8930	MG/KG	-78		126		24	*		20	MS
Zirconium		2.4854	B	96.4731		98.3152		97.9691	98.9296	MG/KG	96		97		2		75 - 125	20	P

RPDout
RPDout
RPDout

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

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

Lancaster Laboratories

<5xRL

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE201
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6346970BKG
% Solids for Duplicate: 99.1
Batch ID(s): P20008B, P20026A, P20011B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6346973DUP
% Solids for Sample: 99.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12628.0293		13590.6195		7		P
Antimony	121	0.2	0.1790	B	0.2222		22		MS
Arsenic	75		8.2290		10.4013		23	*	MS
Barium	137		97.4654		121.1286		22	*	MS
Beryllium	9		0.6381		0.7223		12		MS
Boron			0.8597	B	1.0777	B	23		P
Cadmium	111	0.1	0.1777		0.2511		34		MS
Calcium			2358.0525		2501.9623		6		P
Chromium	52		19.3506		26.7019		32	*	MS
Cobalt	59		6.8974		8.6897		23	*	MS
Copper	63		10.7279		13.2248		21	*	MS
Iron			19385.3310		20805.6136		7		P
Lead	208		16.8715		20.3175		19		MS
Lithium			21.7346		23.1481		6		P
Magnesium			4137.8920		4315.0059		4		P
Manganese			267.4793		257.6078		4		P
Mercury			0.0314	B	0.0423	B	30		CV
Molybdenum	98		0.7054		0.8998		24	*	MS
Nickel	60		13.4426		16.1259		18		MS
Phosphorus			321.8759		338.9398		5		P
Potassium			2753.9536		2866.6298		4		P
Selenium	78		0.1264	B	0.1607	B	24		MS
Silver	107		0.0739	B	0.0630	B	16		MS
Sodium			63.9102	B	65.2190	B	2		P
Strontium			12.4924		13.1210		5		P
Thallium	203	0.1	0.3158		0.3615		13		MS
Tin			2.5540	B	2.4492	B	4		P
Titanium			962.8971		1023.5273		6		P
Vanadium	51		38.7408		47.7373		21	*	MS
Zinc	66		80.4495		95.7851		17		MS
Zirconium			2.4854	B	2.0015	B	22		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.

DE201 4788

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

SAMPLE DELIVERY GROUP

DE202

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3050B	6010B	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3050B	6020	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3060A	7199	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8015B	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8015M	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8081A	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8082	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8151A	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8270C	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	3550B	8270C SIM	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	METHOD	300.0	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	METHOD	314.0	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	METHOD	7471A	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	METHOD	8015B	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348154	N	METHOD	8015M	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3050B	6010B	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3050B	6020	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3060A	7199	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8015B	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8015M	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8081A	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8082	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8151A	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8270C	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	3550B	8270C SIM	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	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
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	METHOD	314.0	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	METHOD	7471A	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	METHOD	8015B	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348155	N	METHOD	8015M	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5DUP	P348155D271746A	DUP	3060A	7199	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5MS	P348155R271656A	MS	3060A	7199	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3050B	6010B	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3050B	6020	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3060A	7199	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8015B	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8015M	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8081A	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8082	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8151A	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8270C	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	3550B	8270C SIM	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	METHOD	300.0	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	METHOD	314.0	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	METHOD	7471A	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	METHOD	8015B	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348169	N	METHOD	8015M	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3050B	6010B	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3050B	6020	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3060A	7199	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3550B	8015B	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	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
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3550B	8081A	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3550B	8082	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3550B	8151A	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3550B	8270C	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	3550B	8270C SIM	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	METHOD	300.0	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	METHOD	314.0	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	METHOD	7471A	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	METHOD	8015B	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348153	N	METHOD	8015M	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5MSD	P348153M240218A	MSD	3550B	8081A	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5MS	P348153R240203A	MS	3550B	8081A	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3050B	6010B	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3050B	6020	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3060A	7199	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8015B	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8015M	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8081A	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8082	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8151A	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8270C	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	3550B	8270C SIM	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	METHOD	300.0	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	METHOD	314.0	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	METHOD	7471A	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	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
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348158	N	METHOD	8015M	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3050B	6010B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3060A	7199	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8015B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8015M	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8081A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8082	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8151A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8270C	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	3550B	8270C SIM	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	METHOD	300.0	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	METHOD	314.0	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	METHOD	6850	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	METHOD	7471A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	METHOD	8015B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348152	N	METHOD	8015M	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D220855	DUP	METHOD	7471A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D221523A	DUP	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D221523C	DUP	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D221523D	DUP	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D222102	DUP	3050B	6010B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D222158B	DUP	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D270010A	DUP	METHOD	300.0	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5DUP	P348152D270235A	DUP	METHOD	314.0	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M220857	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
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M221529A	MSD	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M221529C	MSD	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M221529D	MSD	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M222109	MSD	3050B	6010B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M222202B	MSD	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M242017A	MSD	3550B	8151A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M242042A	MSD	3550B	8082	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M261003	MSD	3550B	8270C	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M261228	MSD	3550B	8270C SIM	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MSD	P348152M320812A	MSD	3550B	8015M	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R220856	MS	METHOD	7471A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R221526A	MS	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R221526C	MS	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R221526D	MS	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R222106	MS	3050B	6010B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R222200B	MS	3050B	6020	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R241949A	MS	3550B	8151A	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R242024A	MS	3550B	8082	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R260938	MS	3550B	8270C	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R261156	MS	3550B	8270C SIM	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R270024A	MS	METHOD	300.0	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R270258A	MS	METHOD	314.0	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5MS	P348152R320748A	MS	3550B	8015M	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3050B	6010B	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3050B	6020	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	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
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8015B	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8015M	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8081A	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8082	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8151A	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8270C	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	3550B	8270C SIM	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	METHOD	300.0	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	METHOD	314.0	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	METHOD	6850	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	METHOD	7471A	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	METHOD	8015B	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348159	N	METHOD	8015M	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3050B	6010B	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3050B	6020	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3060A	7199	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8015B	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8015M	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8081A	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8082	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8151A	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8270C	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	3550B	8270C SIM	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	METHOD	300.0	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	METHOD	314.0	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	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
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	METHOD	8015B	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348160	N	METHOD	8015M	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3050B	6010B	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3050B	6020	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3060A	7199	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8015B	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8015M	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8081A	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8082	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8151A	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8270C	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	3550B	8270C SIM	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	METHOD	300.0	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	METHOD	314.0	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	METHOD	7471A	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	METHOD	8015B	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348156	N	METHOD	8015M	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3050B	6010B	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3050B	6020	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3060A	7199	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3550B	8015B	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3550B	8015M	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3550B	8081A	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3550B	8082	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3550B	8151A	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	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
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	3550B	8270C SIM	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	METHOD	300.0	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	METHOD	314.0	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	METHOD	7471A	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	METHOD	8015B	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348157	N	METHOD	8015M	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3050B	6010B	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3050B	6020	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3060A	7199	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8015B	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8015M	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8081A	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8082	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8151A	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8270C	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	3550B	8270C SIM	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	METHOD	300.0	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	METHOD	314.0	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	METHOD	7471A	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	METHOD	8015B	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348161	N	METHOD	8015M	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3050B	6010B	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3050B	6020	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3060A	7199	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3550B	8015B	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	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
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3550B	8081A	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3550B	8082	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3550B	8151A	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3550B	8270C	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	3550B	8270C SIM	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	METHOD	300.0	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	METHOD	314.0	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	METHOD	7471A	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	METHOD	8015B	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348162	N	METHOD	8015M	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5DUP	P348162D270329B	DUP	METHOD	300.0	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5DUP	P348162D270735B	DUP	METHOD	314.0	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5MS	P348162R270343B	MS	METHOD	300.0	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5MS	P348162R270821B	MS	METHOD	314.0	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3050B	6010B	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3050B	6020	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3060A	7199	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3550B	8081A	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3550B	8082	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3550B	8151A	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3550B	8270C	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	3550B	8270C SIM	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	METHOD	300.0	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	METHOD	314.0	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348164	N	METHOD	7471A	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	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
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3050B	6020	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3060A	7199	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3550B	8081A	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3550B	8082	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3550B	8151A	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3550B	8270C	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	3550B	8270C SIM	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	METHOD	300.0	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	METHOD	314.0	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348165	N	METHOD	7471A	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3050B	6010B	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3050B	6020	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3060A	7199	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3550B	8081A	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3550B	8082	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3550B	8151A	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3550B	8270C	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	3550B	8270C SIM	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	METHOD	300.0	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	METHOD	314.0	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348166	N	METHOD	7471A	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3050B	6010B	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3050B	6020	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3060A	7199	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3550B	8081A	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	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
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3550B	8151A	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3550B	8270C	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	3550B	8270C SIM	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	METHOD	300.0	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	METHOD	314.0	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348163	N	METHOD	7471A	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3050B	6010B	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3050B	6020	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3060A	7199	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3550B	8081A	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3550B	8082	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3550B	8151A	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3550B	8270C	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	3550B	8270C SIM	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	METHOD	300.0	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	METHOD	314.0	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348167	N	METHOD	7471A	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3050B	6010B	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3050B	6020	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3060A	7199	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3550B	8081A	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3550B	8082	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3550B	8151A	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3550B	8270C	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	3550B	8270C SIM	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	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
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	N	METHOD	314.0	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348168	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: DE202 Laboratory: LL

EDD Filename: DE202_v3. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:33:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.79	U	0.79	MDL	0.99	PQL	mg/Kg	UJ	Q

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.6	J	5.83	MDL	97.9	PQL	mg/Kg	J	Z
TIN	3.40	J	0.313	MDL	9.79	PQL	mg/Kg	U	B
Zirconium	3.21	J	0.450	MDL	4.90	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	75.5	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	3.06	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.12	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.7	J	5.81	MDL	97.7	PQL	mg/Kg	J	Z
TIN	2.89	J	0.313	MDL	9.77	PQL	mg/Kg	U	B
Zirconium	3.25	J	0.449	MDL	4.89	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	78.2	J	5.89	MDL	99.0	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-134-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 8:29:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.37	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	2.81	J	0.456	MDL	4.95	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:43:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	56.9	J	5.99	MDL	101	PQL	mg/Kg	J	Z
TIN	2.99	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.74	J	0.463	MDL	5.03	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	67.9	J	5.80	MDL	97.5	PQL	mg/Kg	J	Z
TIN	2.83	J	0.312	MDL	9.75	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.449	MDL	4.88	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 9:33:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.1	J	5.90	MDL	99.2	PQL	mg/Kg	J	Z
TIN	2.90	J	0.318	MDL	9.92	PQL	mg/Kg	U	B
Zirconium	2.79	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.74	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
SODIUM	72.5	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	3.08	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.25	J	0.460	MDL	5.00	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-147-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 10:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	74.1	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
TIN	2.94	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	3.33	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 11:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	66.9	J	5.85	MDL	98.3	PQL	mg/Kg	J	Z
TIN	3.10	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	3.24	J	0.452	MDL	4.92	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 12:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.2	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.95	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.15	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 3:08:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.63	J	0.353	MDL	4.90	PQL	mg/Kg	J	Z
SODIUM	69.7	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	2.89	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.53	J	0.451	MDL	4.90	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 2:16:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.08	J	0.360	MDL	5.01	PQL	mg/Kg	J	Z
SODIUM	64.8	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.93	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.461	MDL	5.01	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.89	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
SODIUM	67.7	J	5.95	MDL	99.9	PQL	mg/Kg	J	Z
TIN	3.07	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	2.92	J	0.460	MDL	5.00	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.352	MDL	4.88	PQL	mg/Kg	J	Z
TIN	3.06	J	0.313	MDL	9.77	PQL	mg/Kg	U	B
Zirconium	2.20	J	0.449	MDL	4.88	PQL	mg/Kg	U	B

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.47	J	0.355	MDL	4.93	PQL	mg/Kg	J	Z
SODIUM	73.3	J	5.87	MDL	98.7	PQL	mg/Kg	J	Z
TIN	2.99	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	3.19	J	0.454	MDL	4.93	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.30	J	0.352	MDL	4.89	PQL	mg/Kg	J	Z
SODIUM	71.0	J	5.82	MDL	97.9	PQL	mg/Kg	J	Z
TIN	2.69	J	0.313	MDL	9.79	PQL	mg/Kg	U	B
Zirconium	3.34	J	0.450	MDL	4.89	PQL	mg/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.99	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
SODIUM	65.0	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	3.08	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.465	MDL	5.05	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
SELENIUM	0.105	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.808		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	146		0.107	MDL	0.403	PQL	mg/Kg	J	A

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	13.4		0.0807	MDL	0.403	PQL	mg/Kg	J	A
BERYLLIUM	0.799		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.585		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	23.4		0.121	MDL	0.403	PQL	mg/Kg	J	Q, A
COBALT	8.56		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	12.0		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, A
LEAD	17.1		0.0103	MDL	0.202	PQL	mg/Kg	J	E, A
NICKEL	18.2		0.101	MDL	0.403	PQL	mg/Kg	J	Q, A
SILVER	0.0793	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.341		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	44.6		0.0222	MDL	0.101	PQL	mg/Kg	J	A
ZINC	95.8		0.565	MDL	3.03	PQL	mg/Kg	J	A

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0587	MDL	0.405	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.755		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	144		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0946	J	0.0749	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	12.3		0.0810	MDL	0.405	PQL	mg/Kg	J	A
BERYLLIUM	0.813		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.287		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	19.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	7.15		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	10.8		0.0810	MDL	0.405	PQL	mg/Kg	J	Q, A
LEAD	9.47		0.0103	MDL	0.202	PQL	mg/Kg	J	E, A
NICKEL	14.9		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A
SILVER	0.0624	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.324		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	39.7		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	79.7		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.654		0.0498	MDL	0.0996	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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-133-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 7:55:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	137		0.106	MDL	0.399	PQL	mg/Kg	J	A

Sample ID: SL-133-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 7:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0925	J	0.0737	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	12.2		0.0797	MDL	0.399	PQL	mg/Kg	J	A
BERYLLIUM	0.761		0.0159	MDL	0.0996	PQL	mg/Kg	J	Q
CADMIUM	0.602		0.0438	MDL	0.0996	PQL	mg/Kg	J	Q
CHROMIUM	19.7		0.120	MDL	0.399	PQL	mg/Kg	J	Q, A
COBALT	7.30		0.0199	MDL	0.0996	PQL	mg/Kg	J	Q, A
COPPER	12.0		0.0797	MDL	0.399	PQL	mg/Kg	J	Q, A
LEAD	17.6		0.0102	MDL	0.199	PQL	mg/Kg	J	E, A
NICKEL	15.6		0.0996	MDL	0.399	PQL	mg/Kg	J	Q, A
SILVER	0.0548	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z, Q
THALLIUM	0.305		0.0299	MDL	0.0996	PQL	mg/Kg	J	Q
VANADIUM	39.8		0.0219	MDL	0.0996	PQL	mg/Kg	J	A
ZINC	87.1		0.558	MDL	2.99	PQL	mg/Kg	J	A

Sample ID: SL-134-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 8:29:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 8:29:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.793		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-134-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 8:29:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.105	MDL	0.396	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-134-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 8:29:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214		0.0733	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	12.2		0.0792	MDL	0.396	PQL	mg/Kg	J	A
BERYLLIUM	0.704		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.544		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	20.3		0.119	MDL	0.396	PQL	mg/Kg	J	Q, A
COBALT	7.31		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q, A
COPPER	14.1		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, A
LEAD	17.7		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	15.7		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, A
SILVER	0.0670	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.301		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	40.9		0.0218	MDL	0.0990	PQL	mg/Kg	J	A
ZINC	87.4		0.555	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: SL-142-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:43:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0584	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 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
MOLYBDENUM	0.990		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-142-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:43:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	149		0.107	MDL	0.402	PQL	mg/Kg	J	A

Sample ID: SL-142-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 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	0.191	J	0.0745	MDL	0.201	PQL	mg/Kg	J	Z, Q
ARSENIC	11.2		0.0805	MDL	0.402	PQL	mg/Kg	J	A
BERYLLIUM	0.680		0.0161	MDL	0.101	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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
CADMIUM	2.05		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	18.1		0.121	MDL	0.402	PQL	mg/Kg	J	Q, A
COBALT	7.35		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	12.9		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, A
LEAD	19.3		0.0103	MDL	0.201	PQL	mg/Kg	J	E, A
NICKEL	14.6		0.101	MDL	0.402	PQL	mg/Kg	J	Q, A
SILVER	0.0687	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.282		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	35.9		0.0221	MDL	0.101	PQL	mg/Kg	J	A
ZINC	109		0.563	MDL	3.02	PQL	mg/Kg	J	A

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
MOLYBDENUM	0.830		0.0497	MDL	0.0994	PQL	mg/Kg	J	Q

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.105	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	2.33		0.0736	MDL	0.199	PQL	mg/Kg	J	Q
ARSENIC	15.2		0.0795	MDL	0.398	PQL	mg/Kg	J	A
BERYLLIUM	0.848		0.0159	MDL	0.0994	PQL	mg/Kg	J	Q
CADMIUM	0.441		0.0437	MDL	0.0994	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.119	MDL	0.398	PQL	mg/Kg	J	Q, A
COBALT	8.47		0.0199	MDL	0.0994	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-143-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.9		0.0795	MDL	0.398	PQL	mg/Kg	J	Q, A
LEAD	29.5		0.0101	MDL	0.199	PQL	mg/Kg	J	E, A
NICKEL	17.2		0.0994	MDL	0.398	PQL	mg/Kg	J	Q, A
SILVER	0.249		0.0141	MDL	0.0994	PQL	mg/Kg	J	Q
THALLIUM	0.400		0.0298	MDL	0.0994	PQL	mg/Kg	J	Q
VANADIUM	45.1		0.0219	MDL	0.0994	PQL	mg/Kg	J	A
ZINC	91.0		0.557	MDL	2.98	PQL	mg/Kg	J	A

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 9:33:00 ***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	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 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
MOLYBDENUM	0.848		0.0506	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 9:33:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.107	MDL	0.405	PQL	mg/Kg	J	A

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 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	0.132	J	0.0749	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	12.5		0.0810	MDL	0.405	PQL	mg/Kg	J	A
BERYLLIUM	0.809		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.445		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.121	MDL	0.405	PQL	mg/Kg	J	Q, A
COBALT	8.43		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	12.2		0.0810	MDL	0.405	PQL	mg/Kg	J	Q, A
LEAD	20.0		0.0103	MDL	0.202	PQL	mg/Kg	J	E, A
NICKEL	17.8		0.101	MDL	0.405	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-145-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 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
SILVER	0.0585	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.364		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	46.8		0.0223	MDL	0.101	PQL	mg/Kg	J	A
ZINC	93.1		0.567	MDL	3.04	PQL	mg/Kg	J	A

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.686		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	129		0.105	MDL	0.396	PQL	mg/Kg	J	A

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.218		0.0732	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	6.67		0.0792	MDL	0.396	PQL	mg/Kg	J	A
BERYLLIUM	0.702		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.247		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	22.5		0.119	MDL	0.396	PQL	mg/Kg	J	Q, A
COBALT	8.07		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q, A
COPPER	12.4		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, A
LEAD	12.7		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	17.4		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, A
SILVER	0.0604	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.351		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	45.9		0.0218	MDL	0.0990	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 Laboratory: LL

EDD Filename: DE202_v3. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	90.1		0.554	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.766		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.105	MDL	0.395	PQL	mg/Kg	J	A

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.138	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	11.0		0.0790	MDL	0.395	PQL	mg/Kg	J	A
BERYLLIUM	0.681		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q
CADMIUM	0.648		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q
CHROMIUM	17.7		0.119	MDL	0.395	PQL	mg/Kg	J	Q, A
COBALT	6.73		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q, A
COPPER	12.0		0.0790	MDL	0.395	PQL	mg/Kg	J	Q, A
LEAD	13.3		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	13.6		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, A
SILVER	0.0642	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q
THALLIUM	0.316		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	36.5		0.0217	MDL	0.0988	PQL	mg/Kg	J	A
ZINC	105		0.553	MDL	2.96	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.818		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.106	MDL	0.401	PQL	mg/Kg	J	A

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.216		0.0742	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	6.14		0.0802	MDL	0.401	PQL	mg/Kg	J	A
BERYLLIUM	0.713		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.452		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	26.4		0.120	MDL	0.401	PQL	mg/Kg	J	Q, A
COBALT	8.53		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	15.2		0.0802	MDL	0.401	PQL	mg/Kg	J	Q, A
LEAD	19.1		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	19.1		0.100	MDL	0.401	PQL	mg/Kg	J	Q, A
SILVER	0.0808	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.336		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	48.0		0.0221	MDL	0.100	PQL	mg/Kg	J	A
ZINC	106		0.561	MDL	3.01	PQL	mg/Kg	J	A

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.869		0.0485	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	136		0.103	MDL	0.388	PQL	mg/Kg	J	A

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.179	J	0.0718	MDL	0.194	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0777	MDL	0.388	PQL	mg/Kg	J	A
BERYLLIUM	0.620		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q
CADMIUM	0.319		0.0427	MDL	0.0971	PQL	mg/Kg	J	Q
CHROMIUM	23.9		0.116	MDL	0.388	PQL	mg/Kg	J	Q, A
COBALT	7.87		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q, A
COPPER	14.4		0.0777	MDL	0.388	PQL	mg/Kg	J	Q, A
LEAD	13.9		0.0099	MDL	0.194	PQL	mg/Kg	J	E, A
NICKEL	16.3		0.0971	MDL	0.388	PQL	mg/Kg	J	Q, A
SILVER	0.0588	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z, Q
THALLIUM	0.307		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	44.4		0.0214	MDL	0.0971	PQL	mg/Kg	J	A
ZINC	92.0		0.544	MDL	2.91	PQL	mg/Kg	J	A

Sample ID: SL-152-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:08:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0558	MDL	0.385	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:08:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.874		0.0481	MDL	0.0962	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-152-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:08:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	153		0.102	MDL	0.385	PQL	mg/Kg	J	A

Sample ID: SL-152-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:08:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.165	J	0.0712	MDL	0.192	PQL	mg/Kg	J	Z, Q
ARSENIC	4.85		0.0769	MDL	0.385	PQL	mg/Kg	J	A
BERYLLIUM	0.757		0.0154	MDL	0.0962	PQL	mg/Kg	J	Q
CADMIUM	0.430		0.0423	MDL	0.0962	PQL	mg/Kg	J	Q
CHROMIUM	24.3		0.115	MDL	0.385	PQL	mg/Kg	J	Q, A
COBALT	7.82		0.0192	MDL	0.0962	PQL	mg/Kg	J	Q, A
COPPER	13.1		0.0769	MDL	0.385	PQL	mg/Kg	J	Q, A
LEAD	13.4		0.0098	MDL	0.192	PQL	mg/Kg	J	E, A
NICKEL	18.0		0.0962	MDL	0.385	PQL	mg/Kg	J	Q, A
SILVER	0.0567	J	0.0137	MDL	0.0962	PQL	mg/Kg	J	Z, Q
THALLIUM	0.344		0.0288	MDL	0.0962	PQL	mg/Kg	J	Q
VANADIUM	44.9		0.0212	MDL	0.0962	PQL	mg/Kg	J	A
ZINC	81.9		0.538	MDL	2.88	PQL	mg/Kg	J	A

Sample ID: SL-155-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:16:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:16:00 ***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		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:16:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.105	MDL	0.397	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-155-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 2:16:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0931	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	4.42		0.0793	MDL	0.397	PQL	mg/Kg	J	A
BERYLLIUM	0.662		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.252		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
CHROMIUM	21.0		0.119	MDL	0.397	PQL	mg/Kg	J	Q, A
COBALT	7.05		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q, A
COPPER	10.9		0.0793	MDL	0.397	PQL	mg/Kg	J	Q, A
LEAD	9.99		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	15.4		0.0991	MDL	0.397	PQL	mg/Kg	J	Q, A
SILVER	0.0430	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
THALLIUM	0.332		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	41.8		0.0218	MDL	0.0991	PQL	mg/Kg	J	A
ZINC	74.2		0.555	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: **SL-176-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 2:34:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.116	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: **SL-176-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 2:34:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.666		0.0495	MDL	0.0989	PQL	mg/Kg	J	Q

Sample ID: **SL-176-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 2:34:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.105	MDL	0.396	PQL	mg/Kg	J	A

Sample ID: **SL-176-SA6-SS-0.0-0.5** ***Collected:*** **7/18/2011 2:34:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.116	J	0.0732	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	4.21		0.0792	MDL	0.396	PQL	mg/Kg	J	A
BERYLLIUM	0.669		0.0158	MDL	0.0989	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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.334		0.0435	MDL	0.0989	PQL	mg/Kg	J	Q
CHROMIUM	19.6		0.119	MDL	0.396	PQL	mg/Kg	J	Q, A
COBALT	6.95		0.0198	MDL	0.0989	PQL	mg/Kg	J	Q, A
COPPER	10.8		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, A
LEAD	10.7		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	15.3		0.0989	MDL	0.396	PQL	mg/Kg	J	Q, A
SILVER	0.0520	J	0.0141	MDL	0.0989	PQL	mg/Kg	J	Z, Q
THALLIUM	0.296		0.0297	MDL	0.0989	PQL	mg/Kg	J	Q
VANADIUM	39.4		0.0218	MDL	0.0989	PQL	mg/Kg	J	A
ZINC	87.5		0.554	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0928	J	0.0584	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.664		0.0503	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	137		0.107	MDL	0.402	PQL	mg/Kg	J	A

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0744	MDL	0.201	PQL	mg/Kg	J	Z, Q
ARSENIC	5.99		0.0805	MDL	0.402	PQL	mg/Kg	J	A
BERYLLIUM	0.639		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.252		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	20.0		0.121	MDL	0.402	PQL	mg/Kg	J	Q, A
COBALT	8.07		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-182-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.3		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, A
LEAD	10.2		0.0103	MDL	0.201	PQL	mg/Kg	J	E, A
NICKEL	13.5		0.101	MDL	0.402	PQL	mg/Kg	J	Q, A
SILVER	0.0516	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.347		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	43.5		0.0221	MDL	0.101	PQL	mg/Kg	J	A
ZINC	111		0.563	MDL	3.02	PQL	mg/Kg	J	A

Sample ID: SL-183-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:20:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0949	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:20:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.662		0.0498	MDL	0.0997	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:20:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.106	MDL	0.399	PQL	mg/Kg	J	A

Sample ID: SL-183-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0738	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	5.11		0.0797	MDL	0.399	PQL	mg/Kg	J	A
BERYLLIUM	0.724		0.0159	MDL	0.0997	PQL	mg/Kg	J	Q
CADMIUM	0.291		0.0439	MDL	0.0997	PQL	mg/Kg	J	Q
CHROMIUM	19.6		0.120	MDL	0.399	PQL	mg/Kg	J	Q, A
COBALT	6.72		0.0199	MDL	0.0997	PQL	mg/Kg	J	Q, A
COPPER	9.38		0.0797	MDL	0.399	PQL	mg/Kg	J	Q, A
LEAD	9.45		0.0102	MDL	0.199	PQL	mg/Kg	J	E, A
NICKEL	12.9		0.0997	MDL	0.399	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0389	J	0.0142	MDL	0.0997	PQL	mg/Kg	J	Z, Q
THALLIUM	0.362		0.0299	MDL	0.0997	PQL	mg/Kg	J	Q
VANADIUM	39.4		0.0219	MDL	0.0997	PQL	mg/Kg	J	A
ZINC	85.4		0.558	MDL	2.99	PQL	mg/Kg	J	A

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.726		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.106	MDL	0.399	PQL	mg/Kg	J	A

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0739	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	3.24		0.0799	MDL	0.399	PQL	mg/Kg	J	A
BERYLLIUM	0.573		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.548		0.0439	MDL	0.0998	PQL	mg/Kg	J	Q
CHROMIUM	49.9		0.120	MDL	0.399	PQL	mg/Kg	J	Q, A
COBALT	6.05		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, A
COPPER	10.9		0.0799	MDL	0.399	PQL	mg/Kg	J	Q, A
LEAD	18.5		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	23.4		0.0998	MDL	0.399	PQL	mg/Kg	J	Q, A
SILVER	0.0729	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.241		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	31.8		0.0220	MDL	0.0998	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	159		0.559	MDL	2.99	PQL	mg/Kg	J	A

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.486		0.0490	MDL	0.0981	PQL	mg/Kg	J	Q

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.1		0.104	MDL	0.392	PQL	mg/Kg	J	A

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0726	MDL	0.196	PQL	mg/Kg	J	Z, Q
ARSENIC	6.45		0.0785	MDL	0.392	PQL	mg/Kg	J	A
BERYLLIUM	0.613		0.0157	MDL	0.0981	PQL	mg/Kg	J	Q
CADMIUM	0.152		0.0431	MDL	0.0981	PQL	mg/Kg	J	Q
CHROMIUM	21.8		0.118	MDL	0.392	PQL	mg/Kg	J	Q, A
COBALT	6.70		0.0196	MDL	0.0981	PQL	mg/Kg	J	Q, A
COPPER	9.76		0.0785	MDL	0.392	PQL	mg/Kg	J	Q, A
LEAD	6.91		0.0100	MDL	0.196	PQL	mg/Kg	J	E, A
NICKEL	13.6		0.0981	MDL	0.392	PQL	mg/Kg	J	Q, A
SILVER	0.0401	J	0.0139	MDL	0.0981	PQL	mg/Kg	J	Z, Q
THALLIUM	0.278		0.0294	MDL	0.0981	PQL	mg/Kg	J	Q
VANADIUM	39.8		0.0216	MDL	0.0981	PQL	mg/Kg	J	A
ZINC	67.1		0.549	MDL	2.94	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-133-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 7:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 8:29:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 10:23:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 3:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:16:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:34:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SS-0.0-0.5 ***Collected:*** 7/18/2011 2:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.20	MDL	1.0	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0265	J	0.0068	MDL	0.0970	PQL	mg/Kg	J	Z

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0111	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0067	MDL	0.0946	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0376	J	0.0068	MDL	0.0971	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0181	J	0.0068	MDL	0.0972	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:33:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0786	J	0.0067	MDL	0.0951	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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0475	J	0.0067	MDL	0.0957	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0627	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0092	J	0.0069	MDL	0.0982	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0426	J	0.0070	MDL	0.0998	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0127	J	0.0067	MDL	0.0953	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.0	J	2.0	MDL	6.0	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

* 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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.62	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.3	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.1	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:43:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.5	J	4.1	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:33:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	6.3	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *Analysis Type:* REA *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	40	J	20	MDL	60	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.4	J	2.0	MDL	6.0	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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.0	J	4.1	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
EFH (C8-C11)	0.78	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.3		0.40	MDL	1.2	PQL	mg/Kg	J	S
EFH (C21-C30)	12		0.40	MDL	1.2	PQL	mg/Kg	J	S
EFH (C30-C40)	25		0.40	MDL	1.2	PQL	mg/Kg	J	S
EFH (C8-C11)	1.1	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z, S

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
4,4'-DDT	1.9		0.067	MDL	0.34	PQL	ug/Kg	J	S

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	1.1		0.067	MDL	0.35	PQL	ug/Kg	J	S

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.6		0.81	MDL	3.4	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
4,4'-DDT	1.4		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	3.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
gamma-BHC (Lindane)	0.13	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
Chlordane	2.3	J	0.80	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.2	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDE	0.41	U	0.41	MDL	0.41	PQL	ug/Kg	UJ	S
4,4'-DDT	0.89		0.067	MDL	0.34	PQL	ug/Kg	J	S, S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	1.7	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S, S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.31	U	0.31	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.081	U	0.081	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.11	U	0.11	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.10	U	0.10	MDL	0.17	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.70	U	0.70	MDL	0.70	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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	3.0	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.091	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BETA-BHC	0.093	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.078	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
DIELDRIN	0.12	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.20		0.034	MDL	0.17	PQL	ug/Kg	J	S

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALPHA-BHC	0.068	J	0.034	MDL	0.17	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* RES *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	62	J	20	MDL	67	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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 1260	1.1	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.5	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *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	0.48	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.7	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.4	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.2	J	1.0	MDL	3.3	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: DE202 Laboratory: LL

EDD Filename: DE202_v3. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	J	0.81	MDL	2.4	PQL	ug/Kg	J	Z, L

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.1	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-152-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.15	J	0.075	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-155-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.5	J	1.2	MDL	3.6	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.55	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z, L
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.62	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.1	J	1.2	MDL	3.6	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	UJ	Q
4-CHLOROPHENYL-PHENYLETHER	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	R	Q
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
ISOPHORONE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *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	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-133-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 7:55:00 *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	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *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	29	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	54	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	63	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	26	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
INDENO(1,2,3-CD)PYRENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	61	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:43:00 *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	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	66	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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(A)ANTHRACENE	32	J	17	MDL	170	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-145-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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(A)PYRENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	26	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	37	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	61	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *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)PYRENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
PYRENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
CHRYSENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 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
BENZOIC ACID	170	U	170	MDL	510	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *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	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:08:00 *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	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	88	J	17	MDL	330	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:16:00 *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	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *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	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-182-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:45:00 *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)ANTHRACENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	34	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	57	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	48	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	40	J	17	MDL	170	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *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	170	U	170	MDL	500	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	31	J	17	MDL	340	PQL	ug/Kg	J	Z
Di-n-butylphthalate	21	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: SL-127-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:42:00 *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	2.3	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
PHENANTHRENE	6.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.9	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
Butylbenzylphthalate	40	J	30	MDL	91	PQL	ug/Kg	J	Z
CHRYSENE	3.9	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
FLUORANTHENE	6.0	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	5.2	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-133-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 7:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	4.2	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	7.2	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 8:29:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.0	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.9	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 10:43:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	3.6	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 11:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.8	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.7	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 10:23:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	7.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.5	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PHENANTHRENE	6.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 **Collected:** 7/18/2011 11:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.5	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
CHRYSENE	3.4	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
Di-n-octylphthalate	40	J	31	MDL	92	PQL	ug/Kg	J	Z
FLUORANTHENE	4.2	J	3.4	MDL	8.5	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	3.7	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 12:00:00 *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	4.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	4.3	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	6.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	3.5	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	3.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
CHRYSENE	6.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	4.2	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	7.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	3.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	3.6	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
FLUORANTHENE	3.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 2:34:00 *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	5.0	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
CHRYSENE	4.8	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	46	J	30	MDL	91	PQL	ug/Kg	J	Z
FLUORANTHENE	5.9	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	5.1	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	2.0	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-184-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 3:27:00 *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(B)FLUORANTHENE	0.97	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	0.99	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.85	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.55	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-128-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	290	J	100	MDL	510	PQL	ug/Kg	J	Z
METHANOL	340	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:29:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	100	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	160	J	100	MDL	510	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: DE202 **Laboratory:** LL

EDD Filename: DE202_v3. **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-142-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	230	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-143-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	290	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:23:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S

Sample ID: SL-147-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	180	J	100	MDL	500	PQL	ug/Kg	J	Z
Isopropanol	160	J	100	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	330	J	100	MDL	510	PQL	ug/Kg	J	Z
Isopropanol	140	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-293-SA6-SS-0.0-0.5 *Collected:* 7/18/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	J	100	MDL	510	PQL	ug/Kg	J	Z
Isopropanol	140	J	100	MDL	510	PQL	ug/Kg	J	Z
METHANOL	450	J	100	MDL	510	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: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE202

Method Blank Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20108CB222043	7/28/2011 8:43:00 PM	BORON	0.606 mg/Kg	SL-127-SA6-SS-0.0-0.5
		CALCIUM	8.49 mg/Kg	SL-128-SA6-SS-0.0-0.5
		MANGANESE	0.0440 mg/Kg	SL-133-SA6-SS-0.0-0.5
		PHOSPHORUS	1.39 mg/Kg	SL-134-SA6-SS-0.0-0.5
		STRONTIUM	0.0460 mg/Kg	SL-142-SA6-SS-0.0-0.5
		TIN	1.63 mg/Kg	SL-143-SA6-SS-0.0-0.5
		TITANIUM	0.0830 mg/Kg	SL-145-SA6-SS-0.0-0.5
				SL-146-SA6-SS-0.0-0.5
				SL-147-SA6-SS-0.0-0.5
				SL-148-SA6-SS-0.0-0.5
				SL-150-SA6-SS-0.0-0.5
				SL-152-SA6-SS-0.0-0.5
				SL-155-SA6-SS-0.0-0.5
				SL-176-SA6-SS-0.0-0.5
				SL-182-SA6-SS-0.0-0.5
				SL-183-SA6-SS-0.0-0.5
				SL-184-SA6-SS-0.0-0.5
				SL-293-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-127-SA6-SS-0.0-0.5(RES)	TIN	3.40 mg/Kg	3.40U mg/Kg
SL-128-SA6-SS-0.0-0.5(RES)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-133-SA6-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-134-SA6-SS-0.0-0.5(RES)	TIN	4.37 mg/Kg	4.37U mg/Kg
SL-142-SA6-SS-0.0-0.5(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-143-SA6-SS-0.0-0.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-145-SA6-SS-0.0-0.5(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-146-SA6-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-147-SA6-SS-0.0-0.5(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-148-SA6-SS-0.0-0.5(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-150-SA6-SS-0.0-0.5(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-152-SA6-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-155-SA6-SS-0.0-0.5(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-176-SA6-SS-0.0-0.5(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg
SL-182-SA6-SS-0.0-0.5(RES)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-183-SA6-SS-0.0-0.5(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-184-SA6-SS-0.0-0.5(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-293-SA6-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P09091AB241826A	8/2/2011 6:26:00 PM	MCPP	530 ug/Kg	SL-127-SA6-SS-0.0-0.5 SL-128-SA6-SS-0.0-0.5 SL-133-SA6-SS-0.0-0.5 SL-134-SA6-SS-0.0-0.5 SL-142-SA6-SS-0.0-0.5 SL-143-SA6-SS-0.0-0.5 SL-145-SA6-SS-0.0-0.5 SL-146-SA6-SS-0.0-0.5 SL-147-SA6-SS-0.0-0.5 SL-148-SA6-SS-0.0-0.5 SL-150-SA6-SS-0.0-0.5 SL-152-SA6-SS-0.0-0.5 SL-155-SA6-SS-0.0-0.5 SL-176-SA6-SS-0.0-0.5 SL-182-SA6-SS-0.0-0.5 SL-183-SA6-SS-0.0-0.5 SL-184-SA6-SS-0.0-0.5 SL-293-SA6-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	14 44 59	12 42 58	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 17 -1851 -2249 0	0 -36 -683 -1067 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - 28 (20.00) - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	DICAMBA	0	-	10.00-190.00	200 (50.00)	DICAMBA	J(all detects) R(all non-detects)
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	DINOSEB	9	7	10.00-46.00	-	DINOSEB	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	159 147 152 127 151 160 206 148 156 169 163 189	136 154 153 - 150 159 262 146 156 168 146 171	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) As, Pb, V, Zn, No Qual, >4x

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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-127-SA6-SS-0.0-0.5MS **SL-127-SA6-SS-0.0-0.5MSD** (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	ANTIMONY	44	42	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-127-SA6-SS-0.0-0.5MS **SL-127-SA6-SS-0.0-0.5MSD** (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	MOLYBDENUM	157	156	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-127-SA6-SS-0.0-0.5MS **SL-127-SA6-SS-0.0-0.5MSD** (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	BARIUM	236	204	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM MANGANESE TITANIUM	1007 132 137 - 262	1212 142 - 162 288	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM MAGNESIUM MANGANESE TITANIUM	No Qual, >4x
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	IRON	-92	568	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
SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	3-NITROANILINE 4,6-DINITRO-2-METHYLPHENOL 4-CHLOROANILINE 4-NITROANILINE ANILINE BENZO(K)FLUORANTHENE Di-n-octylphthalate HEXACHLOROCYCLOPENTADI	- - - - - - - -	- - - - - - - -	59.00-122.00 11.00-126.00 13.00-107.00 41.00-109.00 18.00-116.00 56.00-132.00 56.00-126.00 10.00-153.00	35 (30.00) 77 (30.00) 71 (30.00) 42 (30.00) 64 (30.00) 34 (30.00) 34 (30.00) 33 (30.00)	3-NITROANILINE 4,6-DINITRO-2-METHYLPHEN 4-CHLOROANILINE 4-NITROANILINE ANILINE BENZO(K)FLUORANTHENE Di-n-octylphthalate HEXACHLOROCYCLOPENTAD	J(all detects)
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL BENZIDINE BENZOIC ACID	- 0 0	0 0 -	20.00-143.00 35.00-141.00 10.00-173.00	200 (30.00) - 200 (30.00)	2,4-DINITROPHENOL BENZIDINE BENZOIC ACID	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE	-	20	28.00-109.00	105 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects) UJ(all non-detects)
	4-CHLOROPHENYL-PHENYLET	-	74	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	
	BIS(2-CHLOROETHOXY)METHA	-	72	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	
	FLUORANTHENE	-	71	73.00-112.00	33 (30.00)	FLUORANTHENE	
	HEXACHLOROBENZENE	-	76	77.00-114.00	-	HEXACHLOROBENZENE	
	ISOPHORONE	-	72	73.00-102.00	-	ISOPHORONE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	BENZO(K)FLUORANTHENE	-	317	57.00-153.00	107 (30.00)	BENZO(K)FLUORANTHENE	No Qual, Diluted Out
	BIS(2-ETHYLHEXYL)PHTHALAT	-	170	39.00-167.00	-	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	187	180	57.00-173.00	-	Butylbenzylphthalate	
	DIBENZO(A,H)ANTHRACENE	-	-	22.00-133.00	37 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Di-n-butylphthalate	172	177	65.00-148.00	-	Di-n-butylphthalate	
	Di-n-octylphthalate	219	221	40.00-192.00	-	Di-n-octylphthalate	
	INDENO(1,2,3-CD)PYRENE	-	-	21.00-143.00	84 (30.00)	INDENO(1,2,3-CD)PYRENE	
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	BENZO(B)FLUORANTHENE	-12	503	54.00-163.00	134 (30.00)	BENZO(B)FLUORANTHENE	No Qual, Diluted Out
SL-127-SA6-SS-0.0-0.5MS SL-127-SA6-SS-0.0-0.5MSD (SL-127-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE	32	381	59.00-128.00	118 (30.00)	BENZO(A)ANTHRACENE	No Qual, Diluted Out
	BENZO(A)PYRENE	21	329	58.00-142.00	117 (30.00)	BENZO(A)PYRENE	
	BENZO(G,H,I)PERYLENE	19	-	33.00-141.00	78 (30.00)	BENZO(G,H,I)PERYLENE	
	CHRYSENE	31	420	67.00-123.00	120 (30.00)	CHRYSENE	
	FLUORANTHENE	22	280	51.00-149.00	98 (30.00)	FLUORANTHENE	
	PYRENE	21	264	51.00-131.00	97 (30.00)	PYRENE	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-127-SA6-SS-0.0-0.5MS (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5)	FLUORIDE	43	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-127-SA6-SS-0.0-0.5DUP	ANTIMONY	23	20.00	
(SL-127-SA6-SS-0.0-0.5	LEAD	70	20.00	
SL -128-SA6-SS-0.0-0.5				
SL -133-SA6-SS-0.0-0.5				
SL -134-SA6-SS-0.0-0.5				
SL -142-SA6-SS-0.0-0.5				J(all detects) UJ(all non-detects)
SL -143-SA6-SS-0.0-0.5				
SL -145-SA6-SS-0.0-0.5				
SL -146-SA6-SS-0.0-0.5				
SL -147-SA6-SS-0.0-0.5				Sb, No Qual, OK by Difference
SL -148-SA6-SS-0.0-0.5				
SL -150-SA6-SS-0.0-0.5				
SL -152-SA6-SS-0.0-0.5				
SL -155-SA6-SS-0.0-0.5				
SL -176-SA6-SS-0.0-0.5				
SL -182-SA6-SS-0.0-0.5				
SL -183-SA6-SS-0.0-0.5				
SL -184-SA6-SS-0.0-0.5				
SL -293-SA6-SS-0.0-0.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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
P12091AQ241854A (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	DICAMBA	131	-	54.00-121.00	-	DICAMBA	J (all detects)
P12091AQ241854A (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	DINOSEB	9	-	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
P12105AQ240107A (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	ENDOSULFAN II	128	-	63.00-127.00	-	ENDOSULFAN II	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20126DQ221514A (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	ANTIMONY	78	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20108CQ222047 (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	ALUMINUM IRON TITANIUM	122 126 155	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **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*
P8LELCSQ260616 (SL-127-SA6-SS-0.0-0.5 SL -128-SA6-SS-0.0-0.5 SL -133-SA6-SS-0.0-0.5 SL -134-SA6-SS-0.0-0.5 SL -142-SA6-SS-0.0-0.5 SL -143-SA6-SS-0.0-0.5 SL -145-SA6-SS-0.0-0.5 SL -146-SA6-SS-0.0-0.5 SL -147-SA6-SS-0.0-0.5 SL -148-SA6-SS-0.0-0.5 SL -150-SA6-SS-0.0-0.5 SL -152-SA6-SS-0.0-0.5 SL -155-SA6-SS-0.0-0.5 SL -176-SA6-SS-0.0-0.5 SL -182-SA6-SS-0.0-0.5 SL -183-SA6-SS-0.0-0.5 SL -184-SA6-SS-0.0-0.5 SL -293-SA6-SS-0.0-0.5)	BENZOIC ACID	61	-	62.00-113.00	-	BENZOIC ACID	J(all detects) UJ(all non-detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-146-SA6-SS-0.0 -0.5	n-Triacontane-d62	6	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-293-SA6-SS-0.0 -0.5	O-TERPHENYL	153	47.00-145.00	All Target Analytes	J(all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-127-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	128	20.00-120.00	All Target Analytes	J (all detects)
SL-133-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	149	20.00-120.00	All Target Analytes	J(all detects)
SL-134-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	172	20.00-120.00	All Target Analytes	J(all detects)
SL-142-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	447	20.00-120.00	All Target Analytes	J(all detects)
SL-146-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	377	20.00-120.00	All Target Analytes	J(all detects)
SL-147-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	128	20.00-120.00	All Target Analytes	J(all detects)
SL-147-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	47	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-184-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	142	20.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SS-0.0-0.5	SODIUM	J	72.6	97.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.40	9.79	PQL	mg/Kg	
	Zirconium	J	3.21	4.90	PQL	mg/Kg	
SL-128-SA6-SS-0.0-0.5	SODIUM	J	75.5	100	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	10.0	PQL	mg/Kg	
	Zirconium	J	2.12	5.01	PQL	mg/Kg	
SL-133-SA6-SS-0.0-0.5	SODIUM	J	64.7	97.7	PQL	mg/Kg	J (all detects)
	TIN	J	2.89	9.77	PQL	mg/Kg	
	Zirconium	J	3.25	4.89	PQL	mg/Kg	
SL-134-SA6-SS-0.0-0.5	SODIUM	J	78.2	99.0	PQL	mg/Kg	J (all detects)
	TIN	J	4.37	9.90	PQL	mg/Kg	
	Zirconium	J	2.81	4.95	PQL	mg/Kg	
SL-142-SA6-SS-0.0-0.5	SODIUM	J	56.9	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	10.1	PQL	mg/Kg	
	Zirconium	J	1.74	5.03	PQL	mg/Kg	
SL-143-SA6-SS-0.0-0.5	SODIUM	J	67.9	97.5	PQL	mg/Kg	J (all detects)
	TIN	J	2.83	9.75	PQL	mg/Kg	
	Zirconium	J	2.77	4.88	PQL	mg/Kg	
SL-145-SA6-SS-0.0-0.5	SODIUM	J	64.1	99.2	PQL	mg/Kg	J (all detects)
	TIN	J	2.90	9.92	PQL	mg/Kg	
	Zirconium	J	2.79	4.96	PQL	mg/Kg	
SL-146-SA6-SS-0.0-0.5	BORON	J	4.74	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.5	100	PQL	mg/Kg	
	TIN	J	3.08	10.0	PQL	mg/Kg	
	Zirconium	J	3.25	5.00	PQL	mg/Kg	
SL-147-SA6-SS-0.0-0.5	SODIUM	J	74.1	98.8	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	9.88	PQL	mg/Kg	
	Zirconium	J	3.33	4.94	PQL	mg/Kg	
SL-148-SA6-SS-0.0-0.5	SODIUM	J	66.9	98.3	PQL	mg/Kg	J (all detects)
	TIN	J	3.10	9.83	PQL	mg/Kg	
	Zirconium	J	3.24	4.92	PQL	mg/Kg	
SL-150-SA6-SS-0.0-0.5	SODIUM	J	64.2	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.0	PQL	mg/Kg	
	Zirconium	J	3.15	5.00	PQL	mg/Kg	
SL-152-SA6-SS-0.0-0.5	BORON	J	4.63	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.7	98.0	PQL	mg/Kg	
	TIN	J	2.89	9.80	PQL	mg/Kg	
	Zirconium	J	2.53	4.90	PQL	mg/Kg	
SL-155-SA6-SS-0.0-0.5	BORON	J	4.08	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	64.8	100	PQL	mg/Kg	
	TIN	J	2.93	10.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.01	PQL	mg/Kg	
SL-176-SA6-SS-0.0-0.5	BORON	J	4.89	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.7	99.9	PQL	mg/Kg	
	TIN	J	3.07	9.99	PQL	mg/Kg	
	Zirconium	J	2.92	5.00	PQL	mg/Kg	
SL-182-SA6-SS-0.0-0.5	BORON	J	4.10	4.88	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	9.77	PQL	mg/Kg	
	Zirconium	J	2.20	4.88	PQL	mg/Kg	
SL-183-SA6-SS-0.0-0.5	BORON	J	3.47	4.93	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.3	98.7	PQL	mg/Kg	
	TIN	J	2.99	9.87	PQL	mg/Kg	
	Zirconium	J	3.19	4.93	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-184-SA6-SS-0.0-0.5	BORON	J	4.30	4.89	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.0	97.9	PQL	mg/Kg	
	TIN	J	2.69	9.79	PQL	mg/Kg	
	Zirconium	J	3.34	4.89	PQL	mg/Kg	
SL-293-SA6-SS-0.0-0.5	BORON	J	3.99	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	65.0	101	PQL	mg/Kg	
	TIN	J	3.08	10.1	PQL	mg/Kg	
	Zirconium	J	2.85	5.05	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SS-0.0-0.5	ANTIMONY	J	0.168	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.105	0.403	PQL	mg/Kg	
	SILVER	J	0.0793	0.101	PQL	mg/Kg	
SL-128-SA6-SS-0.0-0.5	ANTIMONY	J	0.0946	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.111	0.405	PQL	mg/Kg	
	SILVER	J	0.0624	0.101	PQL	mg/Kg	
SL-133-SA6-SS-0.0-0.5	ANTIMONY	J	0.0925	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.399	PQL	mg/Kg	
	SILVER	J	0.0548	0.0996	PQL	mg/Kg	
SL-134-SA6-SS-0.0-0.5	SELENIUM	J	0.131	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0670	0.0990	PQL	mg/Kg	
SL-142-SA6-SS-0.0-0.5	ANTIMONY	J	0.191	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.111	0.402	PQL	mg/Kg	
	SILVER	J	0.0687	0.101	PQL	mg/Kg	
SL-143-SA6-SS-0.0-0.5	SELENIUM	J	0.139	0.398	PQL	mg/Kg	J (all detects)
SL-145-SA6-SS-0.0-0.5	ANTIMONY	J	0.132	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.405	PQL	mg/Kg	
	SILVER	J	0.0585	0.101	PQL	mg/Kg	
SL-146-SA6-SS-0.0-0.5	SELENIUM	J	0.128	0.396	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0604	0.0990	PQL	mg/Kg	
SL-147-SA6-SS-0.0-0.5	ANTIMONY	J	0.138	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.395	PQL	mg/Kg	
	SILVER	J	0.0642	0.0988	PQL	mg/Kg	
SL-148-SA6-SS-0.0-0.5	SELENIUM	J	0.129	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0808	0.100	PQL	mg/Kg	
SL-150-SA6-SS-0.0-0.5	ANTIMONY	J	0.179	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.388	PQL	mg/Kg	
	SILVER	J	0.0588	0.0971	PQL	mg/Kg	
SL-152-SA6-SS-0.0-0.5	ANTIMONY	J	0.165	0.192	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.120	0.385	PQL	mg/Kg	
	SILVER	J	0.0567	0.0962	PQL	mg/Kg	
SL-155-SA6-SS-0.0-0.5	ANTIMONY	J	0.0931	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.397	PQL	mg/Kg	
	SILVER	J	0.0430	0.0991	PQL	mg/Kg	
SL-176-SA6-SS-0.0-0.5	ANTIMONY	J	0.116	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.116	0.396	PQL	mg/Kg	
	SILVER	J	0.0520	0.0989	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA6-SS-0.0-0.5	ANTIMONY	J	0.113	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0928	0.402	PQL	mg/Kg	
	SILVER	J	0.0516	0.101	PQL	mg/Kg	
SL-183-SA6-SS-0.0-0.5	ANTIMONY	J	0.102	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0949	0.399	PQL	mg/Kg	
	SILVER	J	0.0389	0.0997	PQL	mg/Kg	
SL-184-SA6-SS-0.0-0.5	ANTIMONY	J	0.136	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.399	PQL	mg/Kg	
	SILVER	J	0.0729	0.0998	PQL	mg/Kg	
SL-293-SA6-SS-0.0-0.5	ANTIMONY	J	0.101	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.174	0.392	PQL	mg/Kg	
	SILVER	J	0.0401	0.0981	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.0	PQL	mg/Kg	J (all detects)
SL-134-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.38	1.0	PQL	mg/Kg	J (all detects)
SL-146-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.55	1.0	PQL	mg/Kg	J (all detects)
SL-150-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.45	1.0	PQL	mg/Kg	J (all detects)
SL-152-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.44	1.0	PQL	mg/Kg	J (all detects)
SL-155-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-176-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-182-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-183-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SS-0.0-0.5	MERCURY	J	0.0265	0.0970	PQL	mg/Kg	J (all detects)
SL-128-SA6-SS-0.0-0.5	MERCURY	J	0.0111	0.101	PQL	mg/Kg	J (all detects)
SL-133-SA6-SS-0.0-0.5	MERCURY	J	0.0090	0.0946	PQL	mg/Kg	J (all detects)
SL-134-SA6-SS-0.0-0.5	MERCURY	J	0.0376	0.0971	PQL	mg/Kg	J (all detects)
SL-143-SA6-SS-0.0-0.5	MERCURY	J	0.0181	0.0972	PQL	mg/Kg	J (all detects)
SL-145-SA6-SS-0.0-0.5	MERCURY	J	0.0786	0.0951	PQL	mg/Kg	J (all detects)
SL-146-SA6-SS-0.0-0.5	MERCURY	J	0.0475	0.0957	PQL	mg/Kg	J (all detects)
SL-150-SA6-SS-0.0-0.5	MERCURY	J	0.0627	0.100	PQL	mg/Kg	J (all detects)
SL-152-SA6-SS-0.0-0.5	MERCURY	J	0.0092	0.0982	PQL	mg/Kg	J (all detects)
SL-182-SA6-SS-0.0-0.5	MERCURY	J	0.0426	0.0998	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-184-SA6-SS-0.0-0.5	MERCURY	J	0.0127	0.0953	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SS-0.0-0.5	ETHANOL METHANOL	J J	290 340	510 510	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-134-SA6-SS-0.0-0.5	Isopropanol	J	100	510	PQL	ug/Kg	J (all detects)
SL-142-SA6-SS-0.0-0.5	ETHANOL Isopropanol	J J	160 230	510 510	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-143-SA6-SS-0.0-0.5	ETHANOL	J	290	510	PQL	ug/Kg	J (all detects)
SL-147-SA6-SS-0.0-0.5	ETHANOL Isopropanol	J J	180 160	500 500	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-148-SA6-SS-0.0-0.5	ETHANOL Isopropanol	J J	330 140	510 510	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-293-SA6-SS-0.0-0.5	ETHANOL Isopropanol METHANOL	J J J	110 140 450	510 510 510	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SS-0.0-0.5	EFH (C15-C20)	J	5.0	6.0	PQL	mg/Kg	J (all detects)
SL-128-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-133-SA6-SS-0.0-0.5	EFH (C15-C20)	J	3.3	6.1	PQL	mg/Kg	J (all detects)
SL-134-SA6-SS-0.0-0.5	EFH (C15-C20)	J	3.1	6.1	PQL	mg/Kg	J (all detects)
SL-142-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.5	12	PQL	mg/Kg	J (all detects)
SL-145-SA6-SS-0.0-0.5	EFH (C15-C20)	J	6.3	12	PQL	mg/Kg	J (all detects)
SL-146-SA6-SS-0.0-0.5	EFH (C15-C20)	J	40	60	PQL	mg/Kg	J (all detects)
SL-147-SA6-SS-0.0-0.5	EFH (C15-C20)	J	3.4	6.0	PQL	mg/Kg	J (all detects)
SL-148-SA6-SS-0.0-0.5	EFH (C15-C20)	J	5.0	12	PQL	mg/Kg	J (all detects)
SL-150-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.78	1.2	PQL	mg/Kg	J (all detects)
SL-293-SA6-SS-0.0-0.5	EFH (C8-C11)	J	1.1	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA6-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J J	3.1 0.13	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-145-SA6-SS-0.0-0.5	Chlordane	J	2.3	3.4	PQL	ug/Kg	J (all detects)
SL-146-SA6-SS-0.0-0.5	Chlordane	J	2.2	3.4	PQL	ug/Kg	J (all detects)
SL-147-SA6-SS-0.0-0.5	Chlordane	J	1.7	3.4	PQL	ug/Kg	J (all detects)
SL-148-SA6-SS-0.0-0.5	Chlordane	J	3.0	3.5	PQL	ug/Kg	J (all detects)
SL-155-SA6-SS-0.0-0.5	HEPTACHLOR	J	0.091	0.17	PQL	ug/Kg	J (all detects)
SL-176-SA6-SS-0.0-0.5	BETA-BHC gamma-BHC (Lindane)	J J	0.093 0.078	0.17 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-183-SA6-SS-0.0-0.5	Chlordane DIELDRIN	J J	1.1 0.12	3.4 0.34	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-293-SA6-SS-0.0-0.5	ALPHA-BHC	J	0.068	0.17	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.4 3.0	1.7 3.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-133-SA6-SS-0.0-0.5	Aroclor 5460	J	3.1	3.4	PQL	ug/Kg	J (all detects)
SL-148-SA6-SS-0.0-0.5	Aroclor 5460	J	62	67	PQL	ug/Kg	J (all detects)
SL-152-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.1	1.7	PQL	ug/Kg	J (all detects)
SL-176-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.5	1.7	PQL	ug/Kg	J (all detects)
SL-183-SA6-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	0.48 1.7	1.7 3.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-293-SA6-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.4 1.2	1.7 3.3	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-128-SA6-SS-0.0-0.5	DINOSEB	J	0.81	2.4	PQL	ug/Kg	J (all detects)
SL-148-SA6-SS-0.0-0.5	2,4-DB	J	1.1	1.7	PQL	ug/Kg	J (all detects)
SL-152-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.15	0.17	PQL	ug/Kg	J (all detects)
SL-176-SA6-SS-0.0-0.5	2,4-D	J	1.5	3.6	PQL	ug/Kg	J (all detects)
SL-182-SA6-SS-0.0-0.5	DICAMBA	J	0.55	1.2	PQL	ug/Kg	J (all detects)
SL-183-SA6-SS-0.0-0.5	2,4-DB	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-184-SA6-SS-0.0-0.5	2,4-D	J	2.1	3.6	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-134-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	29	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	54	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	63	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	49	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	26	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	39	170	PQL	ug/Kg	
	PHENANTHRENE	J	39	170	PQL	ug/Kg	
	PYRENE	J	61	170	PQL	ug/Kg	
SL-142-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	66	340	PQL	ug/Kg	J (all detects)
SL-145-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	32	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	30	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	33	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	17	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	26	340	PQL	ug/Kg	
	CHRYSENE	J	27	170	PQL	ug/Kg	
	FLUORANTHENE	J	55	170	PQL	ug/Kg	
	PHENANTHRENE	J	37	170	PQL	ug/Kg	
	PYRENE	J	61	170	PQL	ug/Kg	
SL-146-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	23	170	PQL	ug/Kg	J (all detects)
	PYRENE	J	30	170	PQL	ug/Kg	
SL-147-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	17	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	20	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	23	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	17	170	PQL	ug/Kg	
	CHRYSENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	19	170	PQL	ug/Kg	
	PYRENE	J	20	170	PQL	ug/Kg	
SL-150-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	340	PQL	ug/Kg	J (all detects)
SL-152-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	88	330	PQL	ug/Kg	J (all detects)
SL-176-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)
SL-182-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	18	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	34	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	57	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	48	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	21	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	340	PQL	ug/Kg	
	CHRYSENE	J	33	170	PQL	ug/Kg	
	FLUORANTHENE	J	39	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	35	170	PQL	ug/Kg	
	PHENANTHRENE	J	18	170	PQL	ug/Kg	
	PYRENE	J	40	170	PQL	ug/Kg	
SL-183-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	340	PQL	ug/Kg	J (all detects)
SL-184-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	340	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	21	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SS-0.0-0.5	ANTHRACENE	J	2.3	8.4	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	6.6	8.4	PQL	ug/Kg	

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

Reporting Limit Outliers

Lab Reporting Batch ID: DE202 **Laboratory: LL**

EDD Filename: DE202_v3. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.9	8.4	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	40	91	PQL	ug/Kg	
	CHRYSENE	J	3.9	8.4	PQL	ug/Kg	
	FLUORANTHENE	J	6.0	8.4	PQL	ug/Kg	
	PYRENE	J	5.2	8.4	PQL	ug/Kg	
SL-133-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	4.2	8.5	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	7.2	8.5	PQL	ug/Kg	
SL-134-SA6-SS-0.0-0.5	ANTHRACENE	J	3.0	8.4	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	4.9	8.4	PQL	ug/Kg	
SL-142-SA6-SS-0.0-0.5	NAPHTHALENE	J	3.6	8.5	PQL	ug/Kg	J (all detects)
SL-143-SA6-SS-0.0-0.5	ANTHRACENE	J	4.8	8.5	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	3.7	8.5	PQL	ug/Kg	
SL-146-SA6-SS-0.0-0.5	ANTHRACENE	J	1.7	8.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	7.7	8.4	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.5	8.4	PQL	ug/Kg	
	PHENANTHRENE	J	6.4	8.4	PQL	ug/Kg	
SL-148-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.5	8.5	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	3.4	8.5	PQL	ug/Kg	
	Di-n-octylphthalate	J	40	92	PQL	ug/Kg	
	FLUORANTHENE	J	4.2	8.5	PQL	ug/Kg	
	PYRENE	J	3.7	8.5	PQL	ug/Kg	
SL-150-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	4.6	8.4	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	4.3	8.4	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	6.7	8.4	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	3.5	8.4	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	3.4	8.4	PQL	ug/Kg	
	CHRYSENE	J	6.7	8.4	PQL	ug/Kg	
SL-155-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	4.2	8.4	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	7.6	8.4	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	3.6	8.4	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	3.6	8.4	PQL	ug/Kg	
	FLUORANTHENE	J	3.4	8.4	PQL	ug/Kg	
SL-176-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	5.0	8.4	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	4.8	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	46	91	PQL	ug/Kg	
	FLUORANTHENE	J	5.9	8.4	PQL	ug/Kg	
	PYRENE	J	5.1	8.4	PQL	ug/Kg	
SL-183-SA6-SS-0.0-0.5	CHRYSENE	J	2.0	8.4	PQL	ug/Kg	J (all detects)
SL-184-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	0.97	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.99	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.85	1.7	PQL	ug/Kg	
	PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-293-SA6-SS-0.0-0.5	ANTHRACENE	J	0.55	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.4	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.7	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.4	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	8.2	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.7	PQL	ug/Kg	

LDC #: 26407B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11

SDG #: DE202 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-127-SA6-SS-0.0-0.5	11	SL-150-SA6-SS-0.0-0.5	21	(#1) Dup	31	
2	SL-128-SA6-SS-0.0-0.5	12	SL-152-SA6-SS-0.0-0.5	22		32	
3	SL-133-SA6-SS-0.0-0.5	13	SL-155-SA6-SS-0.0-0.5	23		33	
4	SL-134-SA6-SS-0.0-0.5	14	SL-176-SA6-SS-0.0-0.5	24		34	
5	SL-142-SA6-SS-0.0-0.5	15	SL-182-SA6-SS-0.0-0.5	25		35	
6	SL-143-SA6-SS-0.0-0.5	16	SL-183-SA6-SS-0.0-0.5	26		36	
7	SL-145-SA6-SS-0.0-0.5	17	SL-184-SA6-SS-0.0-0.5	27		37	
8	SL-146-SA6-SS-0.0-0.5	18	SL-293-SA6-SS-0.0-0.5	28		38	
9	SL-147-SA6-SS-0.0-0.5	19	(#1) MS	29		39	
10	SL-148-SA6-SS-0.0-0.5	20	1 MSD	30		40	

Notes:

LDC #: 26407B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: MG

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

Soil preparation factor applied: 100x
Associated Samples: 14-18

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	14	15	18											
Zr	6.1	3.05	2.9	2.2	2.9											

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE202
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6348152BKG Matrix Spike Lab Sample ID: 6348152MS Matrix Spike Duplicate Lab Sample ID: 6348152MSD
% Solids for Sample: 99.1
Batch Id(s): P20108C, P20126D, P20111C

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		13642.8801		15675.3229		16040.4098		201.8163	197.8592	MG/KG	1007		1212		2			20	P
Antimony	121	0.1682	B	0.6916		0.6625		1.1989	1.1643	MG/KG	44	N	42	N	4		75 - 125	20	MS
Arsenic	75	13.4289		16.5969		16.0619		1.9982	1.9405	MG/KG	159		136		3			20	MS
Barium	137	146.2361		169.7855		166.0134		9.9909	9.7027	MG/KG	236		204		2			20	MS
Beryllium	9	0.7992		1.9716		1.9910		0.7993	0.7762	MG/KG	147	N	154	N	1		75 - 125	20	MS
Boron		5.1963		200.8527		199.3530		201.8163	197.8592	MG/KG	97		98		1		84 - 115	20	P
Cadmium	111	0.5855		2.1081		2.0667		0.9991	0.9703	MG/KG	152	N	153	N	2		75 - 125	20	MS
Calcium		2409.5383		2944.3199		2970.2449		403.6327	395.7183	MG/KG	132		142		1			20	P
Chromium	52	23.3905		36.1071		35.3567		9.9909	9.7027	MG/KG	127	N	123		2		75 - 125	20	MS
Cobalt	59	8.5671		83.9436		81.4445		49.9545	48.5135	MG/KG	151	N	150	N	3		75 - 125	20	MS
Copper	63	12.0464		27.9945		27.5169		9.9909	9.7027	MG/KG	160	N	159	N	2		75 - 125	20	MS
Iron		19639.2592		19546.4571		20201.2287		100.9082	98.9296	MG/KG	-92		568		3			20	P
Lead	208	17.0595		23.2389		24.6837		2.9973	2.9108	MG/KG	206		262		6			20	MS
Lithium		24.3179		123.6448		122.5005		100.9082	98.9296	MG/KG	98		99		1		82 - 114	20	P
Magnesium		4157.9742		4435.1826		4389.2998		201.8163	197.8592	MG/KG	137		117		1			20	P
Manganese		284.1711		338.2240		364.1756		50.4541	49.4648	MG/KG	107		162		7			20	P
Mercury		0.0265	B	0.1956		0.1933		0.1616	0.1652	MG/KG	105		101		1		65 - 135	20	CV
Molybdenum	98	0.8083		16.4810		15.9881		9.9909	9.7027	MG/KG	157	N	156	N	3		75 - 125	20	MS
Nickel	60	18.2119		32.9700		32.3876		9.9909	9.7027	MG/KG	148	N	146	N	2		75 - 125	20	MS
Phosphorus		410.1163		505.3290		498.3677		100.9082	98.9296	MG/KG	94		89		1			20	P
Potassium		3563.0764		4608.2230		4624.7274		1009.0817	989.2958	MG/KG	104		107		0		75 - 125	20	P
Selenium	78	0.1048	B	2.1161		2.1501		1.9982	1.9405	MG/KG	101		105		2		75 - 125	20	MS
Silver	107	0.0793	B	15.6278		15.1906		9.9909	9.7027	MG/KG	156	N	156	N	3		75 - 125	20	MS
Sodium		72.5873	B	1053.6206		1046.7066		1009.0817	989.2958	MG/KG	97		98		1		75 - 125	20	P
Strontium		15.5830		113.4026		113.5009		100.9082	98.9296	MG/KG	97		99		0		75 - 115	20	P
Thallium	203	0.3407		1.0179		0.9910		0.3996	0.3881	MG/KG	169	N	168	N	3		75 - 125	20	MS
Tin		3.3995	B	376.6640		373.3137		403.6327	395.7183	MG/KG	92		93		1		80 - 110	20	P
Titanium		986.9662		1251.8234		1271.4281		100.9082	98.9296	MG/KG	262		288		2			20	P
Vanadium	51	44.6216		60.9246		58.7596		9.9909	9.7027	MG/KG	163		146		4			20	MS
Zinc	66	95.8022		114.6557		112.3962		9.9909	9.7027	MG/KG	189		171		2			20	MS
Zirconium		3.2104	B	97.0232		96.0181		100.9082	98.9296	MG/KG	93		94		1		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE202
Matrix: SOIL Level (low/med): LOW

<5x

Background Lab Sample ID: 6348152BKG
% Solids for Duplicate: 99.1
Batch ID(s): P20108C, P20126D, P20111C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6348152DUP
% Solids for Sample: 99.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			13642.8801		13369.2909		2		P
Antimony	121		0.1682	B	0.1342	B	22		MS
Arsenic	75		13.4289		13.6088		1		MS
Barium	137		146.2361		151.5205		4		MS
Beryllium	9		0.7992		0.7938		1		MS
Boron		4.9	5.1963		5.2094		0		P
Cadmium	111		0.5855		0.7075		19		MS
Calcium			2409.5383		2422.6917		1		P
Chromium	52		23.3905		24.1388		3		MS
Cobalt	59		8.5671		8.6643		1		MS
Copper	63		12.0464		13.0073		8		MS
Iron			19639.2592		19876.4855		1		P
Lead	208		17.0595		35.2981		70	*	MS
Lithium			24.3179		23.8269		2		P
Magnesium			4157.9742		4200.7073		1		P
Manganese			284.1711		297.1755		4		P
Mercury			0.0265	B	0.0324	B	20		CV
Molybdenum	98		0.8083		0.7912		2		MS
Nickel	60		18.2119		17.8350		2		MS
Phosphorus			410.1163		403.4959		2		P
Potassium			3563.0764		3506.4707		2		P
Selenium	78		0.1048	B	0.0942	B	11		MS
Silver	107		0.0793	B	0.0749	B	6		MS
Sodium			72.5873	B	70.1360	B	3		P
Strontium			15.5830		15.9833		3		P
Thallium	203	0.1	0.3407		0.3706		8		MS
Tin			3.3995	B	2.9622	B	14		P
Titanium			986.9662		1009.4960		2		P
Vanadium	51		44.6216		47.5851		6		MS
Zinc	66		95.8022		100.0970		4		MS
Zirconium			3.2104	B	3.1282	B	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.

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE202
Matrix: SOIL Level (low/med): LOW

J/U5

Background Lab Sample ID: 6348152BKG Serial Dilution Lab Sample ID: 6348152L
Batch ID(s): P20108C, P20126D
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		139256.9700		141649.1500		2		P
Antimony	121	0.8336	B	1.8500	U	100		MS
Arsenic	75	66.5400		51.8000		22	E	MS
Barium	137	724.6000		531.5000		27	E	MS
Beryllium	9	3.9600		3.3775		15		MS
Boron		53.0400		83.3500	B	57		P
Cadmium	111	2.9010		2.0815	B	28		MS
Calcium		24594.8800		25343.6500		3		P
Chromium	52	115.9000		97.4500		16	E	MS
Cobalt	59	42.4500		33.7850		20	E	MS
Copper	63	59.6900		47.2150		21	E	MS
Iron		200463.8100		196391.7000		2		P
Lead	208	84.5300		68.3000		19	E	MS
Lithium		248.2200		273.2500		10		P
Magnesium		42441.6900		43140.8500		2		P
Manganese		2900.6200		3021.8000		4		P
Molybdenum	98	4.0050		3.5260		12		MS
Nickel	60	90.2400		69.2000		23	E	MS
Phosphorus		4186.1800		4233.9000		1		P
Potassium		36369.3900		36236.0000		0		P
Selenium	78	0.5195	B	1.4500	U	100		MS
Silver	107	0.3930	B	0.4481	B	14		MS
Sodium		740.9200	B	769.5500	B	4		P
Strontium		159.0600		167.3500		5		P
Thallium	203	1.6880		1.3340	B	21		MS
Tin		34.7000	B	44.1500	B	27		P
Titanium		10074.2600		10367.0500		3		P
Vanadium	51	221.1000		187.7500		15	E	MS
Zinc	66	474.7000		370.0000		22	E	MS
Zirconium		32.7700	B	43.9000	B	34		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: DE202 4287
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE203

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Jul-2011	TB-071911	6349725	TB	5030B	8015M	III
19-Jul-2011	TB-071911	6349725	TB	5030B	8260B	III
19-Jul-2011	TB-071911	6349725	TB	5030B	8260B SIM	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3050B	6010B	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3050B	6020	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3060A	7199	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3550B	8081A	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3550B	8082	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3550B	8151A	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3550B	8270C	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	3550B	8270C SIM	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	METHOD	300.0	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	METHOD	314.0	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349720	N	METHOD	7471A	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5DUP	P349720D271035B	DUP	METHOD	300.0	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5DUP	P349720D272005B	DUP	METHOD	314.0	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5MS	P349720R271049B	MS	METHOD	300.0	III
19-Jul-2011	SL-301-SA6-SS-0.0-0.5MS	P349720R272051B	MS	METHOD	314.0	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3050B	6010B	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3050B	6020	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3060A	7199	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3550B	8081A	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3550B	8082	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3550B	8151A	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	3550B	8270C	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	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
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	METHOD	300.0	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	METHOD	314.0	III
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349717	N	METHOD	7471A	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3050B	6010B	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3050B	6020	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3060A	7199	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3550B	8081A	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3550B	8082	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3550B	8151A	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3550B	8270C	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	3550B	8270C SIM	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	METHOD	300.0	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	METHOD	314.0	III
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349718	N	METHOD	7471A	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3050B	6010B	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3050B	6020	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3060A	7199	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3550B	8081A	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3550B	8082	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3550B	8151A	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3550B	8270C	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	3550B	8270C SIM	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	METHOD	300.0	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	METHOD	314.0	III
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349719	N	METHOD	7471A	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	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
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3050B	6020	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3060A	7199	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3550B	8015B	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3550B	8015M	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3550B	8082	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3550B	8270C	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	3550B	8270C SIM	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	5035	8015M	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	5035	8260B	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	5035	8260B SIM	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	METHOD	300.0	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	METHOD	314.0	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	METHOD	6850	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	METHOD	7471A	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	METHOD	8015B	III
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349721	N	METHOD	8015M	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3050B	6010B	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3050B	6020	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3060A	7199	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3550B	8081A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3550B	8082	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3550B	8151A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3550B	8270C	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	3550B	8270C SIM	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	METHOD	300.0	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	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
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	METHOD	6850	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349710	N	METHOD	7471A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5DUP	P349710D270716A	DUP	METHOD	300.0	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5DUP	P349710D271505A	DUP	METHOD	314.0	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MSD	P349710M240817A	MSD	3550B	8151A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MSD	P349710M241930A	MSD	3550B	8081A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MSD	P349710M260003	MSD	3550B	8270C	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MSD	P349710M260543	MSD	3550B	8270C SIM	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MS	P349710R240749A	MS	3550B	8151A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MS	P349710R241915A	MS	3550B	8081A	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MS	P349710R260511	MS	3550B	8270C SIM	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MS	P349710R262338	MS	3550B	8270C	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MS	P349710R270730A	MS	METHOD	300.0	III
19-Jul-2011	SL-151-SA6-SS-0.0-0.5MS	P349710R271528A	MS	METHOD	314.0	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3050B	6010B	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3050B	6020	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3060A	7199	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3550B	8015B	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3550B	8015M	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3550B	8082	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3550B	8270C	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	3550B	8270C SIM	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	5035	8015M	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	METHOD	300.0	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	METHOD	314.0	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	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
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	METHOD	8015B	III
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349722	N	METHOD	8015M	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3050B	6010B	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3050B	6020	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3060A	7199	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3550B	8081A	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3550B	8082	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3550B	8151A	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3550B	8270C	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	3550B	8270C SIM	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	METHOD	300.0	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	METHOD	314.0	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349711	N	METHOD	7471A	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5MSD	P349711M240214A	MSD	3550B	8082	III
19-Jul-2011	SL-154-SA6-SS-0.0-0.5MS	P349711R240156A	MS	3550B	8082	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3050B	6010B	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3050B	6020	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3060A	7199	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3550B	8015B	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3550B	8015M	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3550B	8082	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3550B	8270C	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	3550B	8270C SIM	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	5035	8015M	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	5035	8260B	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	5035	8260B 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
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	METHOD	300.0	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	METHOD	314.0	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	METHOD	7471A	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	METHOD	8015B	III
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349723	N	METHOD	8015M	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3050B	6010B	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3050B	6020	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3060A	7199	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3550B	8081A	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3550B	8082	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3550B	8151A	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3550B	8270C	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	3550B	8270C SIM	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	METHOD	300.0	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	METHOD	314.0	III
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349716	N	METHOD	7471A	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3050B	6010B	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3050B	6020	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3060A	7199	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3550B	8015B	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3550B	8015M	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3550B	8082	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3550B	8270C	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	3550B	8270C SIM	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	5035	8015M	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	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
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	METHOD	314.0	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	METHOD	7471A	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	METHOD	8015B	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349724	N	METHOD	8015M	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0DUP	P349724D272244A	DUP	3060A	7199	III
19-Jul-2011	SL-085-SA6-SB-7.0-8.0MS	P349724R272153A	MS	3060A	7199	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3005A	6010B	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3020A	6020	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3510C	8015B	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3510C	8015M	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3510C	8081A	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3510C	8082	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3510C	8270C	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3510C	8270C SIM	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	3520C	1625C	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	8330	8330A	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	Gen Prep	300.0	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	Gen Prep	314.0	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	Gen Prep	7199	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	Gen Prep	8015B	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	Gen Prep	8015M	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	METHOD	7470A	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	METHOD	8151A	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	METHOD	8315A	III
19-Jul-2011	EB-SA6-SS-071911	6349726	EB	METHOD	9012B	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3050B	6010B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3050B	6020	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3060A	7199	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8015B	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8015M	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8081A	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8082	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8151A	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8270C	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	3550B	8270C SIM	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	METHOD	300.0	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	METHOD	314.0	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	METHOD	7471A	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	METHOD	8015B	III
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349713	N	METHOD	8015M	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3050B	6010B	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3050B	6020	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3060A	7199	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8015B	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8015M	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8081A	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8082	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8151A	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8270C	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	3550B	8270C SIM	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	METHOD	300.0	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	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
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	METHOD	7471A	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	METHOD	8015B	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349714	N	METHOD	8015M	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5DUP	P349714D221555	DUP	METHOD	7471A	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5MSD	P349714M221558	MSD	METHOD	7471A	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5MSD	P349714M321614A	MSD	3550B	8015M	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5MS	P349714R221557	MS	METHOD	7471A	III
19-Jul-2011	SL-169-SA6-SS-0.0-0.5MS	P349714R321550A	MS	3550B	8015M	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3050B	6010B	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3050B	6020	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3060A	7199	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8015B	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8015M	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8081A	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8082	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8151A	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8270C	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	3550B	8270C SIM	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	METHOD	300.0	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	METHOD	314.0	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	METHOD	7471A	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	METHOD	8015B	III
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349715	N	METHOD	8015M	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3050B	6010B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3060A	7199	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8015B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8015M	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8081A	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8082	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8151A	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8270C	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	3550B	8270C SIM	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	METHOD	300.0	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	METHOD	314.0	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	METHOD	7471A	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	METHOD	8015B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349712	N	METHOD	8015M	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5DUP	P349712D221043	DUP	3050B	6010B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5DUP	P349712D221403A	DUP	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5DUP	P349712D221403B	DUP	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5DUP	P349712D221403C	DUP	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5DUP	P349712D221403D	DUP	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MSD	P349712M221047	MSD	3050B	6010B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MSD	P349712M221409A	MSD	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MSD	P349712M221409B	MSD	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MSD	P349712M221409C	MSD	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MSD	P349712M221409D	MSD	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MSD	P349712M321217A	MSD	3550B	8015B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MS	P349712R221047	MS	3050B	6010B	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MS	P349712R221406A	MS	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MS	P349712R221406B	MS	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MS	P349712R221406C	MS	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MS	P349712R221406D	MS	3050B	6020	III
19-Jul-2011	SL-166-SA6-SS-0.0-0.5MS	P349712R321132A	MS	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.79	MDL	0.99	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-171-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 2:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-172-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 11:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.82	U	0.82	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: AQ**

Sample ID: EB-SA6-SS-071911 *Collected:* 7/19/2011 1:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0038	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00037	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 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
ALUMINUM	13000		6.49	MDL	21.5	PQL	mg/Kg	J	E
MAGNESIUM	5020		0.472	MDL	10.7	PQL	mg/Kg	J	E
MANGANESE	299		0.0386	MDL	0.536	PQL	mg/Kg	J	E
POTASSIUM	2670		12.1	MDL	53.6	PQL	mg/Kg	J	E
TIN	3.69	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
TITANIUM	1010		0.0762	MDL	1.07	PQL	mg/Kg	J	E

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 9:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11800		6.51	MDL	21.5	PQL	mg/Kg	J	E
BORON	2.55	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
MAGNESIUM	4490		0.473	MDL	10.8	PQL	mg/Kg	J	E
MANGANESE	328		0.0387	MDL	0.538	PQL	mg/Kg	J	E
POTASSIUM	1970		12.2	MDL	53.8	PQL	mg/Kg	J	E
TIN	3.52	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	933		0.0763	MDL	1.08	PQL	mg/Kg	J	E

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14400		6.52	MDL	21.5	PQL	mg/Kg	J	E
BORON	4.93	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
MAGNESIUM	5310		0.474	MDL	10.8	PQL	mg/Kg	J	E
MANGANESE	329		0.0388	MDL	0.539	PQL	mg/Kg	J	E
POTASSIUM	2580		12.2	MDL	53.9	PQL	mg/Kg	J	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: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-085-SA6-SB-4.0-5.0 ***Collected:*** 7/19/2011 11:10:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.16	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
TITANIUM	1250		0.0765	MDL	1.08	PQL	mg/Kg	J	E
Zirconium	4.25	J	0.496	MDL	5.39	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA6-SB-7.0-8.0 ***Collected:*** 7/19/2011 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
ALUMINUM	12800		6.33	MDL	20.9	PQL	mg/Kg	J	E
BORON	4.22	J	0.377	MDL	5.23	PQL	mg/Kg	J	Z
MAGNESIUM	8630		0.460	MDL	10.5	PQL	mg/Kg	J	E
MANGANESE	368		0.0377	MDL	0.523	PQL	mg/Kg	J	E
POTASSIUM	4220		11.8	MDL	52.3	PQL	mg/Kg	J	E
TIN	3.33	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	1520		0.0743	MDL	1.05	PQL	mg/Kg	J	E
Zirconium	3.72	J	0.481	MDL	5.23	PQL	mg/Kg	U	B

Sample ID: SL-151-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 9:36:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.08	J	0.356	MDL	4.95	PQL	mg/Kg	J	Z
SODIUM	52.9	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.96	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	2.97	J	0.455	MDL	4.95	PQL	mg/Kg	U	B

Sample ID: SL-154-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 10:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.02	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
SODIUM	79.0	J	5.95	MDL	99.9	PQL	mg/Kg	J	Z
TIN	3.08	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.460	MDL	5.00	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-166-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 3:09:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15400		5.99	MDL	19.8	PQL	mg/Kg	J	E
MAGNESIUM	6140		0.435	MDL	9.89	PQL	mg/Kg	J	E
MANGANESE	371		0.0356	MDL	0.495	PQL	mg/Kg	J	E
POTASSIUM	4090		11.2	MDL	49.5	PQL	mg/Kg	J	E
TIN	3.32	J	0.317	MDL	9.89	PQL	mg/Kg	U	B
TITANIUM	1330		0.0703	MDL	0.989	PQL	mg/Kg	J	E
Zirconium	3.85	J	0.455	MDL	4.95	PQL	mg/Kg	U	B

Sample ID: SL-168-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 1:02:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13000		6.03	MDL	19.9	PQL	mg/Kg	J	E
BORON	4.90	J	0.359	MDL	4.99	PQL	mg/Kg	J	Z
MAGNESIUM	4460		0.439	MDL	9.97	PQL	mg/Kg	J	E
MANGANESE	302		0.0359	MDL	0.499	PQL	mg/Kg	J	E
POTASSIUM	3400		11.3	MDL	49.9	PQL	mg/Kg	J	E
SODIUM	94.6	J	5.94	MDL	99.7	PQL	mg/Kg	J	Z
TIN	2.88	J	0.319	MDL	9.97	PQL	mg/Kg	U	B
TITANIUM	1060		0.0708	MDL	0.997	PQL	mg/Kg	J	E
Zirconium	3.49	J	0.459	MDL	4.99	PQL	mg/Kg	U	B

Sample ID: SL-169-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 1:27:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13300		6.05	MDL	20.0	PQL	mg/Kg	J	E
BORON	4.90	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
MAGNESIUM	4780		0.440	MDL	10.0	PQL	mg/Kg	J	E
MANGANESE	317		0.0360	MDL	0.500	PQL	mg/Kg	J	E
POTASSIUM	3340		11.3	MDL	50.0	PQL	mg/Kg	J	E
SODIUM	72.1	J	5.95	MDL	100	PQL	mg/Kg	J	Z
TIN	2.99	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
TITANIUM	1130		0.0710	MDL	1.00	PQL	mg/Kg	J	E
Zirconium	3.37	J	0.460	MDL	5.00	PQL	mg/Kg	U	B, 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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-171-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 2:21:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14600		6.07	MDL	20.1	PQL	mg/Kg	J	E
MAGNESIUM	5870		0.441	MDL	10.0	PQL	mg/Kg	J	E
MANGANESE	406		0.0361	MDL	0.502	PQL	mg/Kg	J	E
POTASSIUM	4560		11.3	MDL	50.2	PQL	mg/Kg	J	E
TIN	3.30	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
TITANIUM	1330		0.0712	MDL	1.00	PQL	mg/Kg	J	E
Zirconium	4.51	J	0.461	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
ALUMINUM	16900		6.58	MDL	21.8	PQL	mg/Kg	J	E
BORON	4.64	J	0.392	MDL	5.44	PQL	mg/Kg	J	Z
MAGNESIUM	5420		0.479	MDL	10.9	PQL	mg/Kg	J	E
MANGANESE	313		0.0392	MDL	0.544	PQL	mg/Kg	J	E
POTASSIUM	3140		12.3	MDL	54.4	PQL	mg/Kg	J	E
SODIUM	97.7	J	6.47	MDL	109	PQL	mg/Kg	J	Z
TIN	3.37	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
TITANIUM	1290		0.0773	MDL	1.09	PQL	mg/Kg	J	E
Zirconium	4.16	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 8:16:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15500		5.93	MDL	19.6	PQL	mg/Kg	J	E
MAGNESIUM	5120		0.431	MDL	9.81	PQL	mg/Kg	J	E
MANGANESE	327		0.0353	MDL	0.490	PQL	mg/Kg	J	E
POTASSIUM	3650		11.1	MDL	49.0	PQL	mg/Kg	J	E
SODIUM	79.4	J	5.84	MDL	98.1	PQL	mg/Kg	J	Z
TIN	3.16	J	0.314	MDL	9.81	PQL	mg/Kg	U	B
TITANIUM	1160		0.0696	MDL	0.981	PQL	mg/Kg	J	E
Zirconium	3.56	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12600		5.93	MDL	19.6	PQL	mg/Kg	J	E
BORON	4.09	J	0.353	MDL	4.90	PQL	mg/Kg	J	Z
MAGNESIUM	4160		0.431	MDL	9.80	PQL	mg/Kg	J	E
MANGANESE	261		0.0353	MDL	0.490	PQL	mg/Kg	J	E
POTASSIUM	2990		11.1	MDL	49.0	PQL	mg/Kg	J	E
SODIUM	85.2	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	3.16	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
TITANIUM	1070		0.0696	MDL	0.980	PQL	mg/Kg	J	E
Zirconium	2.92	J	0.451	MDL	4.90	PQL	mg/Kg	U	B, B

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
ALUMINUM	11500		6.33	MDL	20.9	PQL	mg/Kg	J	E
BORON	3.98	J	0.377	MDL	5.23	PQL	mg/Kg	J	Z
MAGNESIUM	4900		0.460	MDL	10.5	PQL	mg/Kg	J	E
MANGANESE	286		0.0377	MDL	0.523	PQL	mg/Kg	J	E
POTASSIUM	3000		11.8	MDL	52.3	PQL	mg/Kg	J	E
SODIUM	76.5	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	3.10	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
TITANIUM	1100		0.0743	MDL	1.05	PQL	mg/Kg	J	E
Zirconium	3.41	J	0.481	MDL	5.23	PQL	mg/Kg	U	B, B

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13800		5.92	MDL	19.6	PQL	mg/Kg	J	E
MAGNESIUM	4340		0.430	MDL	9.78	PQL	mg/Kg	J	E
MANGANESE	338		0.0352	MDL	0.489	PQL	mg/Kg	J	E
POTASSIUM	4050		11.1	MDL	48.9	PQL	mg/Kg	J	E
SODIUM	62.2	J	5.82	MDL	97.8	PQL	mg/Kg	J	Z
TIN	3.25	J	0.313	MDL	9.78	PQL	mg/Kg	U	B
TITANIUM	1030		0.0694	MDL	0.978	PQL	mg/Kg	J	E
Zirconium	3.63	J	0.450	MDL	4.89	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 9:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.585		0.0778	MDL	0.210	PQL	mg/Kg	J	Q, E
ARSENIC	44.9		0.0841	MDL	0.421	PQL	mg/Kg	J	E, A
BERYLLIUM	0.537		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.302		0.0463	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	22.5		0.126	MDL	0.421	PQL	mg/Kg	J	Q, A
COBALT	54.0		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	75.8		0.0841	MDL	0.421	PQL	mg/Kg	J	Q, E, E, A
LEAD	8.19		0.0107	MDL	0.210	PQL	mg/Kg	J	E, A
NICKEL	14.1		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E, A
SILVER	0.102	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.185		0.0316	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	40.9		0.0231	MDL	0.105	PQL	mg/Kg	J	E, A
ZINC	74.5		0.589	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 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
SELENIUM	0.236	J	0.0610	MDL	0.421	PQL	mg/Kg	J	Z, Q

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 9:35:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.05		0.0526	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 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
BARIUM	94.7		0.111	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 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	1.22		0.0765	MDL	0.207	PQL	mg/Kg	J	Q, E
ARSENIC	44.1		0.0827	MDL	0.414	PQL	mg/Kg	J	E, A
BERYLLIUM	0.623		0.0165	MDL	0.103	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: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-084-SA6-SB-9.0-10.0 ***Collected:*** 7/19/2011 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
CADMIUM	0.269		0.0455	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	27.0		0.124	MDL	0.414	PQL	mg/Kg	J	Q, A
COBALT	60.8		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E, A
COPPER	65.7		0.0827	MDL	0.414	PQL	mg/Kg	J	Q, E, E, A
LEAD	11.8		0.0105	MDL	0.207	PQL	mg/Kg	J	E, A
NICKEL	17.8		0.103	MDL	0.414	PQL	mg/Kg	J	Q, E, A
SILVER	0.0927	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.227		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	49.4		0.0227	MDL	0.103	PQL	mg/Kg	J	E, A
ZINC	95.4		0.579	MDL	3.10	PQL	mg/Kg	J	E, A

Sample ID: SL-084-SA6-SB-9.0-10.0 ***Collected:*** 7/19/2011 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
SELENIUM	0.170	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-084-SA6-SB-9.0-10.0 ***Collected:*** 7/19/2011 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
MOLYBDENUM	2.76		0.0517	MDL	0.103	PQL	mg/Kg	J	Q, E

Sample ID: SL-084-SA6-SB-9.0-10.0 ***Collected:*** 7/19/2011 9:45:00 ***Analysis Type:*** REA7 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.110	MDL	0.414	PQL	mg/Kg	J	E, A

Sample ID: SL-085-SA6-SB-4.0-5.0 ***Collected:*** 7/19/2011 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
ANTIMONY	0.206	J	0.0782	MDL	0.211	PQL	mg/Kg	J	Z, Q, E
ARSENIC	10.8		0.0845	MDL	0.423	PQL	mg/Kg	J	E, A
BERYLLIUM	0.667		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.159		0.0465	MDL	0.106	PQL	mg/Kg	J	Q
CHROMIUM	22.7		0.127	MDL	0.423	PQL	mg/Kg	J	Q, A
COBALT	13.1		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 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
COPPER	14.0		0.0845	MDL	0.423	PQL	mg/Kg	J	Q, E, E, A
LEAD	8.15		0.0108	MDL	0.211	PQL	mg/Kg	J	E, A
NICKEL	16.0		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E, A
SILVER	0.0432	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q
THALLIUM	0.300		0.0317	MDL	0.106	PQL	mg/Kg	J	Q
VANADIUM	46.7		0.0232	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	70.6		0.592	MDL	3.17	PQL	mg/Kg	J	E, A

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.69		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.6		0.112	MDL	0.423	PQL	mg/Kg	J	E, A

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 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
ANTIMONY	0.0956	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.52		0.0862	MDL	0.431	PQL	mg/Kg	J	E, A
BERYLLIUM	0.598		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.117		0.0474	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	28.3		0.129	MDL	0.431	PQL	mg/Kg	J	Q, A
COBALT	8.99		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	13.5		0.0862	MDL	0.431	PQL	mg/Kg	J	Q, E, E, A
LEAD	5.27		0.0110	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	20.2		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 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
SILVER	0.0414	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.365		0.0323	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	54.5		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	85.5		0.603	MDL	3.23	PQL	mg/Kg	J	E, A

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 11:20:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0940	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 11:20:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.564		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 11:20:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	134		0.114	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:36:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
MOLYBDENUM	0.689		0.0495	MDL	0.0990	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:36:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.105	MDL	0.396	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-151-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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	0.124	J	0.0733	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	3.75		0.0792	MDL	0.396	PQL	mg/Kg	J	A
BERYLLIUM	0.553		0.0158	MDL	0.0990	PQL	mg/Kg	J	Q
CADMIUM	0.355		0.0436	MDL	0.0990	PQL	mg/Kg	J	Q
CHROMIUM	18.0		0.119	MDL	0.396	PQL	mg/Kg	J	Q, A
COBALT	5.77		0.0198	MDL	0.0990	PQL	mg/Kg	J	Q, A
COPPER	12.4		0.0792	MDL	0.396	PQL	mg/Kg	J	Q, A
LEAD	15.5		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	13.3		0.0990	MDL	0.396	PQL	mg/Kg	J	Q, A
SILVER	0.0503	J	0.0141	MDL	0.0990	PQL	mg/Kg	J	Z, Q
THALLIUM	0.256		0.0297	MDL	0.0990	PQL	mg/Kg	J	Q
VANADIUM	32.1		0.0218	MDL	0.0990	PQL	mg/Kg	J	A
ZINC	124		0.555	MDL	2.97	PQL	mg/Kg	J	A

Sample ID: SL-154-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
SELENIUM	0.114	J	0.0568	MDL	0.392	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
MOLYBDENUM	0.822		0.0490	MDL	0.0980	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
BARIUM	146		0.104	MDL	0.392	PQL	mg/Kg	J	A

Sample ID: SL-154-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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	0.167	J	0.0725	MDL	0.196	PQL	mg/Kg	J	Z, Q
ARSENIC	6.15		0.0784	MDL	0.392	PQL	mg/Kg	J	A
BERYLLIUM	0.855		0.0157	MDL	0.0980	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
CADMIUM	0.254		0.0431	MDL	0.0980	PQL	mg/Kg	J	Q
CHROMIUM	23.9		0.118	MDL	0.392	PQL	mg/Kg	J	Q, A
COBALT	8.52		0.0196	MDL	0.0980	PQL	mg/Kg	J	Q, A
COPPER	14.7		0.0784	MDL	0.392	PQL	mg/Kg	J	Q, A
LEAD	13.4		0.010	MDL	0.196	PQL	mg/Kg	J	E, A
NICKEL	16.5		0.0980	MDL	0.392	PQL	mg/Kg	J	Q, A
SILVER	0.0952	J	0.0139	MDL	0.0980	PQL	mg/Kg	J	Z, Q
THALLIUM	0.337		0.0294	MDL	0.0980	PQL	mg/Kg	J	Q
VANADIUM	46.2		0.0216	MDL	0.0980	PQL	mg/Kg	J	A
ZINC	133		0.549	MDL	2.94	PQL	mg/Kg	J	A

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0747	MDL	0.202	PQL	mg/Kg	J	Z, Q, E
ARSENIC	10.1		0.0807	MDL	0.404	PQL	mg/Kg	J	E, A
BERYLLIUM	0.865		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.205		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	31.0		0.121	MDL	0.404	PQL	mg/Kg	J	Q, A
COBALT	12.9		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E, A
COPPER	25.8		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E, E, A
LEAD	12.0		0.0103	MDL	0.202	PQL	mg/Kg	J	E, A
NICKEL	23.5		0.101	MDL	0.404	PQL	mg/Kg	J	Q, E, A
SILVER	0.0717	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.415		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	59.0		0.0222	MDL	0.101	PQL	mg/Kg	J	E, A
ZINC	113		0.565	MDL	3.03	PQL	mg/Kg	J	E, A

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0585	MDL	0.404	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: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.815		0.0505	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	156		0.107	MDL	0.404	PQL	mg/Kg	J	E, A

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.148	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.15		0.0790	MDL	0.395	PQL	mg/Kg	J	E, A
BERYLLIUM	0.616		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q, E
CADMIUM	0.292		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q
CHROMIUM	23.9		0.119	MDL	0.395	PQL	mg/Kg	J	Q, A
COBALT	7.45		0.0198	MDL	0.0988	PQL	mg/Kg	J	Q, E, A
COPPER	12.9		0.0790	MDL	0.395	PQL	mg/Kg	J	Q, E, E, A
LEAD	16.8		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	17.9		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, E, A
SILVER	0.0482	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q
THALLIUM	0.304		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	44.9		0.0217	MDL	0.0988	PQL	mg/Kg	J	E, A
ZINC	93.3		0.553	MDL	2.96	PQL	mg/Kg	J	E, A

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.797		0.0494	MDL	0.0988	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.105	MDL	0.395	PQL	mg/Kg	J	E, A

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
ANTIMONY	0.213		0.0726	MDL	0.196	PQL	mg/Kg	J	Q, E
ARSENIC	4.80		0.0784	MDL	0.392	PQL	mg/Kg	J	E, A
BERYLLIUM	0.614		0.0157	MDL	0.0980	PQL	mg/Kg	J	Q, E
CADMIUM	0.472		0.0431	MDL	0.0980	PQL	mg/Kg	J	Q
CHROMIUM	21.5		0.118	MDL	0.392	PQL	mg/Kg	J	Q, A
COBALT	7.21		0.0196	MDL	0.0980	PQL	mg/Kg	J	Q, E, A
COPPER	13.9		0.0784	MDL	0.392	PQL	mg/Kg	J	Q, E, E, A
LEAD	37.7		0.0100	MDL	0.196	PQL	mg/Kg	J	E, A
NICKEL	15.2		0.0980	MDL	0.392	PQL	mg/Kg	J	Q, E, A
SILVER	0.0516	J	0.0139	MDL	0.0980	PQL	mg/Kg	J	Z, Q
THALLIUM	0.283		0.0294	MDL	0.0980	PQL	mg/Kg	J	Q
VANADIUM	40.3		0.0216	MDL	0.0980	PQL	mg/Kg	J	E, A
ZINC	134		0.549	MDL	2.94	PQL	mg/Kg	J	E, A

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:27:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.176	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z, Q

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:27:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.723		0.0490	MDL	0.0980	PQL	mg/Kg	J	Q, E

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:27:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	123		0.104	MDL	0.392	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-171-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 2:21:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.380		0.0721	MDL	0.195	PQL	mg/Kg	J	Q, E
ARSENIC	3.69		0.0779	MDL	0.390	PQL	mg/Kg	J	E, A
BERYLLIUM	0.452		0.0156	MDL	0.0974	PQL	mg/Kg	J	Q, E
CADMIUM	0.161		0.0429	MDL	0.0974	PQL	mg/Kg	J	Q
CHROMIUM	19.2		0.117	MDL	0.390	PQL	mg/Kg	J	Q, A
COBALT	6.36		0.0195	MDL	0.0974	PQL	mg/Kg	J	Q, E, A
COPPER	11.6		0.0779	MDL	0.390	PQL	mg/Kg	J	Q, E, E, A
LEAD	6.81		0.0099	MDL	0.195	PQL	mg/Kg	J	E, A
NICKEL	12.8		0.0974	MDL	0.390	PQL	mg/Kg	J	Q, E, A
SILVER	0.0238	J	0.0138	MDL	0.0974	PQL	mg/Kg	J	Z, Q
THALLIUM	0.245		0.0292	MDL	0.0974	PQL	mg/Kg	J	Q
VANADIUM	35.9		0.0214	MDL	0.0974	PQL	mg/Kg	J	E, A
ZINC	63.2		0.546	MDL	2.92	PQL	mg/Kg	J	E, A

Sample ID: SL-171-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 2:21:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0565	MDL	0.390	PQL	mg/Kg	J	Z, Q

Sample ID: SL-171-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 2:21:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0487	MDL	0.0974	PQL	mg/Kg	J	Q, E

Sample ID: SL-171-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 2:21:00 **Analysis Type:** REA7 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.103	MDL	0.390	PQL	mg/Kg	J	E, A

Sample ID: SL-172-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 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
ANTIMONY	0.153	J	0.0774	MDL	0.209	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.11		0.0837	MDL	0.419	PQL	mg/Kg	J	E, A
BERYLLIUM	0.726		0.0167	MDL	0.105	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: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-172-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 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
CADMIUM	0.371		0.0460	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	24.8		0.126	MDL	0.419	PQL	mg/Kg	J	Q, A
COBALT	7.57		0.0209	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	14.7		0.0837	MDL	0.419	PQL	mg/Kg	J	Q, E, E, A
LEAD	13.2		0.0107	MDL	0.209	PQL	mg/Kg	J	E, A
NICKEL	17.5		0.105	MDL	0.419	PQL	mg/Kg	J	Q, E, A
SILVER	0.0386	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q
THALLIUM	0.310		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	45.6		0.0230	MDL	0.105	PQL	mg/Kg	J	E, A
ZINC	107		0.586	MDL	3.14	PQL	mg/Kg	J	E, A

Sample ID: SL-172-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 11:18:00 **Analysis Type:** REA5 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0607	MDL	0.419	PQL	mg/Kg	J	Z, Q

Sample ID: SL-172-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 11:18:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.602		0.0523	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-172-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 11:18:00 **Analysis Type:** REA7 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.111	MDL	0.419	PQL	mg/Kg	J	E, A

Sample ID: SL-174-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 8:16:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0740	MDL	0.200	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.76		0.0800	MDL	0.400	PQL	mg/Kg	J	E, A
BERYLLIUM	0.772		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.238		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	26.3		0.120	MDL	0.400	PQL	mg/Kg	J	Q, A
COBALT	8.42		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	25.1		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E, E, A
LEAD	19.4		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	18.8		0.100	MDL	0.400	PQL	mg/Kg	J	Q, E, A
SILVER	0.0599	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.348		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	49.0		0.0220	MDL	0.100	PQL	mg/Kg	J	E, A
ZINC	89.7		0.560	MDL	3.00	PQL	mg/Kg	J	E, A

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.188	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.739		0.0500	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.106	MDL	0.400	PQL	mg/Kg	J	E, A

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0740	MDL	0.200	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.16		0.0800	MDL	0.400	PQL	mg/Kg	J	E, A
BERYLLIUM	0.722		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.250		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	26.1		0.120	MDL	0.400	PQL	mg/Kg	J	Q, A
COBALT	8.67		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E, A
COPPER	15.6		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E, E, A
LEAD	25.1		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	16.3		0.100	MDL	0.400	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0520	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.357		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	49.1		0.0220	MDL	0.100	PQL	mg/Kg	J	E, A
ZINC	98.1		0.560	MDL	3.00	PQL	mg/Kg	J	E, A

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
SELENIUM	0.146	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
MOLYBDENUM	0.554		0.0500	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	115		0.106	MDL	0.400	PQL	mg/Kg	J	E, A

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
ANTIMONY	0.219		0.0744	MDL	0.201	PQL	mg/Kg	J	Q, E
ARSENIC	4.83		0.0805	MDL	0.402	PQL	mg/Kg	J	E, A
BERYLLIUM	0.671		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.362		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	22.1		0.121	MDL	0.402	PQL	mg/Kg	J	Q, A
COBALT	7.09		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E, A
COPPER	20.2		0.0805	MDL	0.402	PQL	mg/Kg	J	Q, E, E, A
LEAD	17.9		0.0103	MDL	0.201	PQL	mg/Kg	J	E, A
NICKEL	16.1		0.101	MDL	0.402	PQL	mg/Kg	J	Q, E, A
SILVER	0.0682	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.332		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	41.7		0.0221	MDL	0.101	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: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
ZINC	95.1		0.563	MDL	3.02	PQL	mg/Kg	J	E, A

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.173	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.884		0.0503	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	159		0.107	MDL	0.402	PQL	mg/Kg	J	E, A

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.278		0.0724	MDL	0.196	PQL	mg/Kg	J	Q, E
ARSENIC	13.5		0.0783	MDL	0.391	PQL	mg/Kg	J	E, A
BERYLLIUM	0.653		0.0157	MDL	0.0978	PQL	mg/Kg	J	Q, E
CADMIUM	0.378		0.0430	MDL	0.0978	PQL	mg/Kg	J	Q
CHROMIUM	25.5		0.117	MDL	0.391	PQL	mg/Kg	J	Q, A
COBALT	15.4		0.0196	MDL	0.0978	PQL	mg/Kg	J	Q, E, A
COPPER	31.3		0.0783	MDL	0.391	PQL	mg/Kg	J	Q, E, E, A
LEAD	15.6		0.010	MDL	0.196	PQL	mg/Kg	J	E, A
NICKEL	17.0		0.0978	MDL	0.391	PQL	mg/Kg	J	Q, E, A
SILVER	0.0606	J	0.0139	MDL	0.0978	PQL	mg/Kg	J	Z, Q
THALLIUM	0.274		0.0293	MDL	0.0978	PQL	mg/Kg	J	Q
VANADIUM	57.8		0.0215	MDL	0.0978	PQL	mg/Kg	J	E, A
ZINC	106		0.548	MDL	2.93	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.157	J	0.0567	MDL	0.391	PQL	mg/Kg	J	Z, Q

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.13		0.0489	MDL	0.0978	PQL	mg/Kg	J	Q, E

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* REA7 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.104	MDL	0.391	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.20	MDL	1.0	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 2:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.88	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 11:18:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0381	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0691	J	0.0069	MDL	0.0980	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0071	J	0.0067	MDL	0.0952	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0129	J	0.0069	MDL	0.0983	PQL	mg/Kg	J	Z

Sample ID: SL-171-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 2:21:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0078	J	0.0066	MDL	0.0940	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
MERCURY	0.0329	J	0.0074	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0138	J	0.0069	MDL	0.0983	PQL	mg/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0295	J	0.0067	MDL	0.0952	PQL	mg/Kg	J	Z

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
MERCURY	0.0239	J	0.0073	MDL	0.104	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0206	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Method Category: SVOA **Method:** 1625C **Matrix:** AQ

Sample ID: EB-SA6-SS-071911 *Collected:* 7/19/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	6.81		0.491	MDL	0.981	PQL	ng/L	UJ	B, S

Method Category: SVOA **Method:** 6850 **Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	4.0	J	2.3	MDL	5.4	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA6-SS-071911 *Collected:* 7/19/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

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

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

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.81	MDL	2.4	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: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** AQ

Sample ID: EB-SA6-SS-071911 *Collected:* 7/19/2011 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
HEPTACHLOR	0.0087	J	0.0025	MDL	0.0097	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
4,4'-DDT	1.2		0.067	MDL	0.34	PQL	ug/Kg	J	Q, Q
Chlordane	2.4	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.18	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
Chlordane	2.9	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	0.28	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.044	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDT	0.20	U	0.20	MDL	0.34	PQL	ug/Kg	UJ	S
ALDRIN	0.066	U	0.066	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.80	U	0.80	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-166-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 3:09:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN ALDEHYDE	0.19	U	0.19	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.066	U	0.066	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.12	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z, S
TOXAPHENE	2.2	U	2.2	MDL	6.6	PQL	ug/Kg	UJ	S

Sample ID: SL-168-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 1:02:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.054	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.23	J	0.066	MDL	0.34	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.13	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.077	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	2.9	U	2.9	MDL	2.9	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	1.8	U	1.8	MDL	1.8	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **8081A** ***Matrix:*** **SO**

Sample ID: **SL-169-SA6-SS-0.0-0.5** ***Collected:*** **7/19/2011 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*
MIREX	0.60		0.067	MDL	0.34	PQL	ug/Kg	J	S

Sample ID: **SL-171-SA6-SS-0.0-0.5** ***Collected:*** **7/19/2011 2:21:00** ***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	0.14	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
4,4'-DDE	0.25	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.14	U	0.14	MDL	0.34	PQL	ug/Kg	UJ	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.19	U	0.19	MDL	0.34	PQL	ug/Kg	UJ	S
TOXAPHENE	15	U	15	MDL	15	PQL	ug/Kg	UJ	S

Sample ID: **SL-172-SA6-SS-0.0-0.5** ***Collected:*** **7/19/2011 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*
4,4'-DDD	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
4,4'-DDE	0.21	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.36	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, S
ALDRIN	0.072	U	0.072	MDL	0.18	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.067	J	0.037	MDL	0.18	PQL	ug/Kg	J	Z, S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-172-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
BETA-BHC	0.065	U	0.065	MDL	0.18	PQL	ug/Kg	UJ	S
Chlordane	0.87	U	0.87	MDL	3.7	PQL	ug/Kg	UJ	S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	UJ	S
DIELDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.048	U	0.048	MDL	0.18	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.15	U	0.15	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.065	U	0.065	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	S
MIREX	0.16	U	0.16	MDL	0.37	PQL	ug/Kg	UJ	S
TOXAPHENE	5.8	U	5.8	MDL	7.2	PQL	ug/Kg	UJ	S

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.6	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
4,4'-DDE	1.9		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	6.5		0.81	MDL	3.4	PQL	ug/Kg	J	S
ENDRIN ALDEHYDE	0.96		0.067	MDL	0.34	PQL	ug/Kg	J	S
HEPTACHLOR	0.078	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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	0.099	U	0.099	MDL	0.36	PQL	ug/Kg	UJ	S
4,4'-DDE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-185-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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'-DDT	0.38		0.069	MDL	0.36	PQL	ug/Kg	J	S
ALDRIN	0.069	U	0.069	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.036	U	0.036	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	3.6	PQL	ug/Kg	UJ	S
DELTA-BHC	0.038	U	0.038	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.069	U	0.069	MDL	0.36	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	0.36	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN	0.085	U	0.085	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.076	U	0.076	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.063	U	0.063	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.99	U	0.99	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.069	U	0.069	MDL	0.36	PQL	ug/Kg	UJ	S
TOXAPHENE	2.3	U	2.3	MDL	6.9	PQL	ug/Kg	UJ	S

Sample ID: SL-301-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 8:01:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.087	U	0.087	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	0.28	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z, S
4,4'-DDT	0.91		0.067	MDL	0.35	PQL	ug/Kg	J	S
ALDRIN	0.067	U	0.067	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	0.22		0.061	MDL	0.17	PQL	ug/Kg	J	S
Chlordane	0.81	U	0.81	MDL	3.5	PQL	ug/Kg	UJ	S
DELTA-BHC	0.049	U	0.049	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.18	U	0.18	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.077	U	0.077	MDL	0.35	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-301-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 8:01:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN	0.24	U	0.24	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.42	U	0.42	MDL	0.42	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.047	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR	0.094	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.066	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.60	U	0.60	MDL	0.60	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-154-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 10:08:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 1:02:00 **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 1260	1.3	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 2:21:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 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 1260	0.73	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *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	1.2	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.1	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
AROCLOR 1260	3.0		0.41	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5460	4.0		1.0	MDL	3.5	PQL	ug/Kg	J	S

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 9:36:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, Q, L

Sample ID: SL-154-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-166-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 3:09:00 *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	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-168-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 1:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-169-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-171-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 2:21:00 *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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-172-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
DINOSEB	0.87	U	0.87	MDL	2.6	PQL	ug/Kg	R	L

Sample ID: SL-174-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:16:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.77	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z, L
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L
MCPP	590		75	MDL	250	PQL	ug/Kg	UJ	L, B

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
MCPP	1000		78	MDL	260	PQL	ug/Kg	UJ	L, B

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.8	J	1.2	MDL	3.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	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: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

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

Sample ID: **SL-084-SA6-SB-4.0-5.0** ***Collected:*** **7/19/2011 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
ANTHRACENE	35	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	120	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	78	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	72	J	18	MDL	180	PQL	ug/Kg	J	Z
CARBAZOLE	30	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	120	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	57	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: **SL-084-SA6-SB-9.0-10.0** ***Collected:*** **7/19/2011 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(B)FLUORANTHENE	23	J	18	MDL	180	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	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA6-SB-4.0-5.0** ***Collected:*** **7/19/2011 11:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	19	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: **SL-151-SA6-SS-0.0-0.5** ***Collected:*** **7/19/2011 9:36:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q

Sample ID: **SL-168-SA6-SS-0.0-0.5** ***Collected:*** **7/19/2011 1:02:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	17	J	17	MDL	170	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: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-169-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
BENZO(B)FLUORANTHENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	48	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 2:21:00 ***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	30	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
BENZO(G,H,I)PERYLENE	87	J	17	MDL	170	PQL	ug/Kg	J	Z
Butylbenzylphthalate	19	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	76	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 8:01:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	34	J	17	MDL	170	PQL	ug/Kg	J	Z
ANTHRACENE	87	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	90	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	62	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	34	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	22	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	93	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: PrepDE203_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB-SA6-SS-071911 *Collected:* 7/19/2011 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	0.054	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.17	J	0.054	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.23	J	0.054	MDL	1.1	PQL	ug/L	U	B
Di-n-octylphthalate	0.31	J	0.054	MDL	1.1	PQL	ug/L	U	B

Method Category: SVOA

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

Sample ID: SL-084-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 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
ACENAPHTHYLENE	1.0	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24		6.5	MDL	19	PQL	ug/Kg	U	B

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 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
ANTHRACENE	0.90	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	39		6.4	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-085-SA6-SB-4.0-5.0 *Collected:* 7/19/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.42	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
ANTHRACENE	0.63	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.5	MDL	20	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	0.92	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-151-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
ANTHRACENE	6.1	J	3.4	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	34		6.7	MDL	17	PQL	ug/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: DE203 **Laboratory:** LL

EDD Filename: PrepDE203_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-151-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
BENZO(B)FLUORANTHENE	44		6.7	MDL	17	PQL	ug/Kg	J	Q
BENZO(K)FLUORANTHENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	64	J	60	MDL	180	PQL	ug/Kg	U	B
CHRYSENE	36		3.4	MDL	17	PQL	ug/Kg	J	Q
Di-n-butylphthalate	68	J	60	MDL	180	PQL	ug/Kg	U	B
FLUORANTHENE	65		6.7	MDL	17	PQL	ug/Kg	J	Q, Q
INDENO(1,2,3-CD)PYRENE	14	J	6.7	MDL	17	PQL	ug/Kg	J	Z
PHENANTHRENE	32		6.7	MDL	17	PQL	ug/Kg	J	Q
PYRENE	47		6.7	MDL	17	PQL	ug/Kg	J	Q, Q

Sample ID: SL-154-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
ACENAPHTHYLENE	0.42	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.1	MDL	18	PQL	ug/Kg	U	B
DIBENZO(A,H)ANTHRACENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.90	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 3:09:00 ***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	0.50	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 1:02:00 ***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	0.70	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.1	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	35		6.0	MDL	18	PQL	ug/Kg	U	B
NAPHTHALENE	0.74	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.82	J	0.66	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.66	MDL	1.7	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: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-169-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	19		6.1	MDL	18	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.70	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-171-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 2:21:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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
ANTHRACENE	0.49	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	6.5	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	1.1	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.79	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-174-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 8:16:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	18		6.0	MDL	18	PQL	ug/Kg	U	B
CHRYSENE	0.84	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.75	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.94	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5 ***Collected:*** 7/19/2011 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	66		6.0	MDL	18	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: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-178-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
Di-n-butylphthalate	28		6.0	MDL	18	PQL	ug/Kg	U	B
FLUORENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-185-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 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
BENZO(A)PYRENE	0.82	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.3	MDL	19	PQL	ug/Kg	U	B
FLUORANTHENE	1.4	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-301-SA6-SS-0.0-0.5 *Collected:* 7/19/2011 8:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.69	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	41		6.0	MDL	18	PQL	ug/Kg	U	B
Butylbenzylphthalate	8.4	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.3	J	6.0	MDL	18	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-084-SA6-SB-9.0-10.0 *Collected:* 7/19/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	460	J	110	MDL	540	PQL	ug/Kg	J	Z

Sample ID: SL-085-SA6-SB-7.0-8.0 *Collected:* 7/19/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	120	J	110	MDL	540	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: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-166-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 3:09:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	Q
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	Q

Sample ID: SL-168-SA6-SS-0.0-0.5 **Collected:** 7/19/2011 1:02:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	200	J	100	MDL	500	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0 **Collected:** 7/19/2011 9:35:00 **Analysis Type:** RES **Dilution:** 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	2.5	J	0.16	MDL	4.2	PQL	ug/Kg	J	Z
ACETONE	11		7.1	MDL	8.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.3	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

Sample ID: SL-085-SA6-SB-4.0-5.0 **Collected:** 7/19/2011 11:10:00 **Analysis Type:** RES **Dilution:** 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.3	J	6.5	MDL	7.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.3	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE203

Method Blank Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA20B261436	8/9/2011 2:36:00 PM	N-NITROSODIMETHYLAMINE	2.04 ng/L	EB-SA6-SS-071911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071911(RES)	N-NITROSODIMETHYLAMINE	6.81 ng/L	6.81U ng/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20848AB221837	7/28/2011 6:37:00 PM	BORON STRONTIUM Zirconium	0.0029 mg/L 0.00029 mg/L 0.0059 mg/L	EB-SA6-SS-071911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071911(REA3)	BORON	0.0038 mg/L	0.0038U mg/L
EB-SA6-SS-071911(REA3)	STRONTIUM	0.00037 mg/L	0.00037U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20108CB222043	7/28/2011 8:43:00 PM	BORON CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN TITANIUM	0.606 mg/Kg 8.49 mg/Kg 0.0440 mg/Kg 1.39 mg/Kg 0.0460 mg/Kg 1.63 mg/Kg 0.0830 mg/Kg	SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5
P20608CB221024	7/30/2011 10:24:00 AM	CALCIUM IRON MANGANESE PHOSPHORUS TIN TITANIUM Zirconium	5.42 mg/Kg 10.5 mg/Kg 0.0980 mg/Kg 1.41 mg/Kg 1.75 mg/Kg 0.0880 mg/Kg 0.692 mg/Kg	SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **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-084-SA6-SB-4.0-5.0(REA)	TIN	3.69 mg/Kg	3.69U mg/Kg
SL-084-SA6-SB-9.0-10.0(REA)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-085-SA6-SB-4.0-5.0(REA)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-085-SA6-SB-7.0-8.0(REA)	TIN	3.33 mg/Kg	3.33U mg/Kg
SL-151-SA6-SS-0.0-0.5(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-154-SA6-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-166-SA6-SS-0.0-0.5(REA)	TIN	3.32 mg/Kg	3.32U mg/Kg
SL-168-SA6-SS-0.0-0.5(REA)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-169-SA6-SS-0.0-0.5(REA)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-169-SA6-SS-0.0-0.5(REA)	Zirconium	3.37 mg/Kg	3.37U mg/Kg
SL-171-SA6-SS-0.0-0.5(REA)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-172-SA6-SS-0.0-0.5(REA)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-174-SA6-SS-0.0-0.5(REA)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-178-SA6-SS-0.0-0.5(REA)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-178-SA6-SS-0.0-0.5(REA)	Zirconium	2.92 mg/Kg	2.92U mg/Kg
SL-185-SA6-SS-0.0-0.5(REA)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-185-SA6-SS-0.0-0.5(REA)	Zirconium	3.41 mg/Kg	3.41U mg/Kg
SL-301-SA6-SS-0.0-0.5(REA)	TIN	3.25 mg/Kg	3.25U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20626BB221350A	7/28/2011 1:50:00 PM	LEAD	0.0239 mg/Kg	SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P09096AB240626A	8/3/2011 6:26:00 AM	MCPP	370 ug/Kg	SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5

The 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-178-SA6-SS-0.0-0.5(RES)	MCPP	590 ug/Kg	590U ug/Kg
SL-185-SA6-SS-0.0-0.5(RES)	MCPP	1000 ug/Kg	1000U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB21B211617A	7/20/2011 4:17:00 PM	ACETONE METHYLENE CHLORIDE	8.7 ug/Kg 0.96 ug/Kg	SL-084-SA6-SB-4.0-5.0 SL-085-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-084-SA6-SB-4.0-5.0(RES)	ACETONE	11 ug/Kg	11U ug/Kg
SL-084-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.2U ug/Kg
SL-085-SA6-SB-4.0-5.0(RES)	ACETONE	7.3 ug/Kg	7.7U ug/Kg
SL-085-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	3.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC20B260551	7/30/2011 5:51:00 AM	Di-n-butylphthalate Di-n-octylphthalate	0.14 ug/L 0.28 ug/L	EB-SA6-SS-071911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071911(RES)	Di-n-butylphthalate	0.23 ug/L	1.1U ug/L
EB-SA6-SS-071911(RES)	Di-n-octylphthalate	0.31 ug/L	1.1U ug/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB20B260231	8/2/2011 2:31:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	10 ug/Kg 11 ug/Kg	SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0 SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-084-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	24 ug/Kg	24U ug/Kg
SL-084-SA6-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	39 ug/Kg	39U ug/Kg
SL-085-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	20U ug/Kg
SL-151-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	64 ug/Kg	180U ug/Kg
SL-151-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	68 ug/Kg	180U ug/Kg
SL-154-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	18U ug/Kg
SL-168-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	35 ug/Kg	35U ug/Kg
SL-169-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	19 ug/Kg	19U ug/Kg
SL-172-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	18 ug/Kg	20U ug/Kg
SL-174-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	18 ug/Kg	18U ug/Kg
SL-178-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	66 ug/Kg	66U ug/Kg
SL-178-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	28 ug/Kg	28U ug/Kg
SL-185-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	19U ug/Kg
SL-301-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	41 ug/Kg	41U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **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-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	2,4,5-T 2,4,5-TP (Silvex) DALAPON	296 - -	346 - -	10.00-156.00 24.00-141.00 10.00-125.00	- 38 (35.00) 54 (50.00)	2,4,5-T 2,4,5-TP (Silvex) DALAPON	J (all detects)
SL-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	DICAMBA DINOSEB	0 6	- 0	10.00-190.00 10.00-46.00	200 (50.00) 200 (35.00)	DICAMBA DINOSEB	J(all detects) R(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-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	4,4'-DDE DELTA-BHC	- -	- -	18.00-161.00 23.00-140.00	63 (50.00) 52 (50.00)	4,4'-DDE DELTA-BHC	J(all detects)
SL-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	4,4'-DDT	-82	-	10.00-176.00	86 (50.00)	4,4'-DDT	J(all detects) R(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA6-SS-0.0-0.5MS SL-166-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	m-Terphenyl O-TERPHENYL p-Terphenyl	47 59 52	72 - -	75.00-125.00 75.00-125.00 75.00-125.00	43 (20.00) 45 (20.00) 42 (20.00)	m-Terphenyl O-TERPHENYL p-Terphenyl	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-169-SA6-SS-0.0-0.5MS SL-169-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	EFH (C21-C30) EFH (C30-C40)	1582 6488	2178 5760	49.00-123.00 49.00-123.00	- -	EFH (C21-C30) EFH (C30-C40)	No Qual, >4x Diluted out
SL-169-SA6-SS-0.0-0.5MS SL-169-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	0 0 0	0 0 0	49.00-123.00 49.00-123.00 49.00-123.00	- - -	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	No Qual, >4x Diluted out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_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-166-SA6-SS-0.0-0.5MSD (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	CADMIUM SILVER THALLIUM	- - -	142 141 129	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CADMIUM SILVER THALLIUM	J(all detects)
SL-166-SA6-SS-0.0-0.5MS **SL-166-SA6-SS-0.0-0.5MSD** (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	ARSENIC COPPER LEAD VANADIUM ZINC	-2 26 27 -18 -139	276 - 175 - 181	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	43 (20.00) 27 (20.00) 30 (20.00) 22 (20.00) 28 (20.00)	ARSENIC COPPER LEAD VANADIUM ZINC	J(all detects) R(all non-detects) As, Pb, V, Zn No Qual, %R>4x
SL-166-SA6-SS-0.0-0.5MS **SL-166-SA6-SS-0.0-0.5MSD** (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	ANTIMONY BERYLLIUM CHROMIUM COBALT NICKEL	32 - 62 - 53	48 130 - 138 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	31 (20.00) 21 (20.00) - 23 (20.00) 22 (20.00)	ANTIMONY BERYLLIUM CHROMIUM COBALT NICKEL	J(all detects) UJ(all non-detects)
SL-166-SA6-SS-0.0-0.5MSD (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	SELENIUM	-	129	75.00-125.00	-	SELENIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_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-166-SA6-SS-0.0-0.5MSD (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	MOLYBDENUM	-	142	75.00-125.00	21 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-166-SA6-SS-0.0-0.5MS SL-166-SA6-SS-0.0-0.5MSD (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	BARIUM	-275	-	75.00-125.00	24 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual, %R>4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA6-SS-0.0-0.5MS	ALUMINUM	-344	1677	75.00-125.00	23 (20.00)	ALUMINUM	
SL-166-SA6-SS-0.0-0.5MSD	CALCIUM	-47	149	75.00-125.00	-	CALCIUM	
(SL-084-SA6-SB-4.0-5.0	IRON	-5900	-836	75.00-125.00	-	IRON	
SL -084-SA6-SB-9.0-10.0	MAGNESIUM	-527	195	75.00-125.00	22 (20.00)	MAGNESIUM	J(all detects)
SL -085-SA6-SB-4.0-5.0	MANGANESE	-111	-	75.00-125.00	25 (20.00)	MANGANESE	UJ(all non-detects)
SL -085-SA6-SB-7.0-8.0	PHOSPHORUS	7	-	75.00-125.00	-	PHOSPHORUS	
SL -166-SA6-SS-0.0-0.5	POTASSIUM	16	-	75.00-125.00	22 (20.00)	POTASSIUM	
SL -168-SA6-SS-0.0-0.5	TITANIUM	-63	272	75.00-125.00	23 (20.00)	TITANIUM	No Qual, %R>4x
SL -169-SA6-SS-0.0-0.5							
SL -171-SA6-SS-0.0-0.5							
SL -172-SA6-SS-0.0-0.5							
SL -174-SA6-SS-0.0-0.5							
SL -178-SA6-SS-0.0-0.5							
SL -185-SA6-SS-0.0-0.5							
SL -301-SA6-SS-0.0-0.5)							

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-151-SA6-SS-0.0-0.5MS (SL-151-SA6-SS-0.0-0.5 SL -154-SA6-SS-0.0-0.5 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5)	FLUORIDE	57	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-301-SA6-SS-0.0-0.5MS (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -301-SA6-SS-0.0-0.5)	FLUORIDE	73	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	ACENAPHTHENE	106	107	63.00-105.00	-	ACENAPHTHENE	J(all detects)
	Butylbenzylphthalate	227	234	57.00-173.00	-	Butylbenzylphthalate	
	Di-n-octylphthalate	258	267	40.00-192.00	-	Di-n-octylphthalate	
	NAPHTHALENE	-	103	61.00-102.00	-	NAPHTHALENE	
	N-NITROSODIMETHYLAMINE	-	128	48.00-113.00	-	N-NITROSODIMETHYLAMINE	
SL-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	Diethylphthalate	0	0	70.00-136.00	-	Diethylphthalate	J(all detects) R(all non-detects)
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
	FLUORANTHENE	-27	20	26.00-166.00	-	FLUORANTHENE	
	PYRENE	-3	8	15.00-153.00	-	PYRENE	
SL-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	BENZO(A)ANTHRACENE	40	49	59.00-128.00	-	BENZO(A)ANTHRACENE	J(all detects) UJ(all non-detects)
	BENZO(B)FLUORANTHENE	21	-	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	CHRYSENE	42	-	48.00-134.00	-	CHRYSENE	
	PHENANTHRENE	20	41	62.00-122.00	-	PHENANTHRENE	

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	HEXACHLOROCYCLOPENTADI	-	-	10.00-153.00	48 (30.00)	HEXACHLOROCYCLOPENTAD	J(all detects)
SL-151-SA6-SS-0.0-0.5MS SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-151-SA6-SS-0.0-0.5MSD (EB-SA6-SS-071911)	2,4-DINITROPHENOL	-	14	20.00-143.00	44 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: DE203_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-166-SA6-SS-0.0-0.5DUP (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	SODIUM	66	20.00	No qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-166-SA6-SS-0.0-0.5DUP (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	COPPER SILVER	21 21	20.00 20.00	J(all detects) UJ(all non-detects) Ag No qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-169-SA6-SS-0.0-0.5DUP (SL-169-SA6-SS-0.0-0.5)	MERCURY	200	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12021AY321245A (EB-SA6-SS-071911)	ETHYLENE GLYCOL	-	-	80.00-124.00	26 (20.00)	ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12076AQ241839A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
P12076AY241921A (EB-SA6-SS-071911)	PETN	129	129	80.00-120.00	-	PETN	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12096AQ240654A (SL-151-SA6-SS-0.0-0.5 SL -154-SA6-SS-0.0-0.5 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	DICAMBA	146	-	54.00-121.00	-	DICAMBA	
	MCPP	429	-	54.00-137.00	-	MCPP	J(all detects)
P12096AQ240654A (SL-151-SA6-SS-0.0-0.5 SL -154-SA6-SS-0.0-0.5 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	DINOSEB	5	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20126DQ221514A (SL-151-SA6-SS-0.0-0.5 SL -154-SA6-SS-0.0-0.5)	ANTIMONY	78	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20108CQ222047 (SL-151-SA6-SS-0.0-0.5 SL -154-SA6-SS-0.0-0.5)	ALUMINUM IRON TITANIUM	122 126 155	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC limits

Method: 7471A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20411CQ220946 (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	MERCURY	121	-	85.00-120.00	-	MERCURY	No Qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20608CQ221028 (SL-084-SA6-SB-4.0-5.0 SL -084-SA6-SB-9.0-10.0 SL -085-SA6-SB-4.0-5.0 SL -085-SA6-SB-7.0-8.0 SL -166-SA6-SS-0.0-0.5 SL -168-SA6-SS-0.0-0.5 SL -169-SA6-SS-0.0-0.5 SL -171-SA6-SS-0.0-0.5 SL -172-SA6-SS-0.0-0.5 SL -174-SA6-SS-0.0-0.5 SL -178-SA6-SS-0.0-0.5 SL -185-SA6-SS-0.0-0.5 SL -301-SA6-SS-0.0-0.5)	ALUMINUM IRON TITANIUM	130 130 168	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSB21Q211642A (SL-084-SA6-SB-4.0-5.0 SL -085-SA6-SB-4.0-5.0)	1,2-DIBROMO-3-CHLOROPROP	121	-	58.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE203 Laboratory: LL

EDD Filename: DE203_v2. eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SS-071911	N-Nitrosodimethylamine-d6	167	50.00-150.00	All Target Analytes	J (all detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-166-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	45	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-169-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	41	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-171-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	48	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-172-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	49	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-178-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	390	20.00-120.00	All Target Analytes	J(all detects)
SL-185-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	40	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-301-SA6-SS-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
SL-084-SA6-SB-4.0 -5.0	DECACHLOROBIPHENYL	287	45.00-120.00	All Target Analytes	No qual, Diluted out
SL-185-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	149 180	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)

Method: 8270C
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-084-SA6-SB-4.0 -5.0	2,4,6-TRIBROMOPHENOL	22	35.00-130.00	No Affected Compounds	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071911	BORON	J	0.0038	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00037	0.0050	PQL	mg/L	

Method: 8081A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071911	HEPTACHLOR	J	0.0087	0.0097	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.17	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.23	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.31	1.1	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	TIN	J	3.69	10.7	PQL	mg/Kg	J (all detects)
SL-084-SA6-SB-9.0-10.0	BORON	J	2.55	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	3.52	10.8	PQL	mg/Kg	
SL-085-SA6-SB-4.0-5.0	BORON	J	4.93	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	10.8	PQL	mg/Kg	
	Zirconium	J	4.25	5.39	PQL	mg/Kg	
SL-085-SA6-SB-7.0-8.0	BORON	J	4.22	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	3.33	10.5	PQL	mg/Kg	
	Zirconium	J	3.72	5.23	PQL	mg/Kg	
SL-151-SA6-SS-0.0-0.5	BORON	J	4.08	4.95	PQL	mg/Kg	J (all detects)
	SODIUM	J	52.9	99.0	PQL	mg/Kg	
	TIN	J	2.96	9.90	PQL	mg/Kg	
	Zirconium	J	2.97	4.95	PQL	mg/Kg	
SL-154-SA6-SS-0.0-0.5	BORON	J	4.02	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.0	99.9	PQL	mg/Kg	
	TIN	J	3.08	9.99	PQL	mg/Kg	
	Zirconium	J	2.59	5.00	PQL	mg/Kg	
SL-166-SA6-SS-0.0-0.5	TIN	J	3.32	9.89	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.85	4.95	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-168-SA6-SS-0.0-0.5	BORON	J	4.90	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	94.6	99.7	PQL	mg/Kg	
	TIN	J	2.88	9.97	PQL	mg/Kg	
	Zirconium	J	3.49	4.99	PQL	mg/Kg	
SL-169-SA6-SS-0.0-0.5	BORON	J	4.90	5.00	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.1	100	PQL	mg/Kg	
	TIN	J	2.99	10.0	PQL	mg/Kg	
	Zirconium	J	3.37	5.00	PQL	mg/Kg	
SL-171-SA6-SS-0.0-0.5	TIN	J	3.30	10.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.51	5.02	PQL	mg/Kg	
SL-172-SA6-SS-0.0-0.5	BORON	J	4.64	5.44	PQL	mg/Kg	J (all detects)
	SODIUM	J	97.7	109	PQL	mg/Kg	
	TIN	J	3.37	10.9	PQL	mg/Kg	
	Zirconium	J	4.16	5.44	PQL	mg/Kg	
SL-174-SA6-SS-0.0-0.5	SODIUM	J	79.4	98.1	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	9.81	PQL	mg/Kg	
	Zirconium	J	3.56	4.90	PQL	mg/Kg	
SL-178-SA6-SS-0.0-0.5	BORON	J	4.09	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.2	98.0	PQL	mg/Kg	
	TIN	J	3.16	9.80	PQL	mg/Kg	
	Zirconium	J	2.92	4.90	PQL	mg/Kg	
SL-185-SA6-SS-0.0-0.5	BORON	J	3.98	5.23	PQL	mg/Kg	J (all detects)
	SODIUM	J	76.5	105	PQL	mg/Kg	
	TIN	J	3.10	10.5	PQL	mg/Kg	
	Zirconium	J	3.41	5.23	PQL	mg/Kg	
SL-301-SA6-SS-0.0-0.5	SODIUM	J	62.2	97.8	PQL	mg/Kg	J (all detects)
	TIN	J	3.25	9.78	PQL	mg/Kg	
	Zirconium	J	3.63	4.89	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	SELENIUM	J	0.236	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.102	0.105	PQL	mg/Kg	
SL-084-SA6-SB-9.0-10.0	SELENIUM	J	0.170	0.414	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0927	0.103	PQL	mg/Kg	
SL-085-SA6-SB-4.0-5.0	ANTIMONY	J	0.206	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.423	PQL	mg/Kg	
	SILVER	J	0.0432	0.106	PQL	mg/Kg	
SL-085-SA6-SB-7.0-8.0	ANTIMONY	J	0.0956	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0940	0.431	PQL	mg/Kg	
	SILVER	J	0.0414	0.108	PQL	mg/Kg	
SL-151-SA6-SS-0.0-0.5	ANTIMONY	J	0.124	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.396	PQL	mg/Kg	
	SILVER	J	0.0503	0.0990	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-154-SA6-SS-0.0-0.5	ANTIMONY	J	0.167	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.114	0.392	PQL	mg/Kg	
	SILVER	J	0.0952	0.0980	PQL	mg/Kg	
SL-166-SA6-SS-0.0-0.5	ANTIMONY	J	0.167	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.194	0.404	PQL	mg/Kg	
	SILVER	J	0.0717	0.101	PQL	mg/Kg	
SL-168-SA6-SS-0.0-0.5	ANTIMONY	J	0.148	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.157	0.395	PQL	mg/Kg	
	SILVER	J	0.0482	0.0988	PQL	mg/Kg	
SL-169-SA6-SS-0.0-0.5	SELENIUM	J	0.176	0.392	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0516	0.0980	PQL	mg/Kg	
SL-171-SA6-SS-0.0-0.5	SELENIUM	J	0.117	0.390	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0238	0.0974	PQL	mg/Kg	
SL-172-SA6-SS-0.0-0.5	ANTIMONY	J	0.153	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.168	0.419	PQL	mg/Kg	
	SILVER	J	0.0386	0.105	PQL	mg/Kg	
SL-174-SA6-SS-0.0-0.5	ANTIMONY	J	0.188	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.188	0.400	PQL	mg/Kg	
	SILVER	J	0.0599	0.100	PQL	mg/Kg	
SL-178-SA6-SS-0.0-0.5	ANTIMONY	J	0.136	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.146	0.400	PQL	mg/Kg	
	SILVER	J	0.0520	0.100	PQL	mg/Kg	
SL-185-SA6-SS-0.0-0.5	SELENIUM	J	0.173	0.402	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0682	0.101	PQL	mg/Kg	
SL-301-SA6-SS-0.0-0.5	SELENIUM	J	0.157	0.391	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0606	0.0978	PQL	mg/Kg	

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	PERCHLORATE	J	4.0	5.4	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.59	1.1	PQL	mg/Kg	J (all detects)
SL-084-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-085-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-154-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.86	1.0	PQL	mg/Kg	J (all detects)
SL-166-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.35	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-171-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.88	1.0	PQL	mg/Kg	J (all detects)
SL-172-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.91	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.39	1.0	PQL	mg/Kg	J (all detects)
SL-178-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-185-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA6-SB-4.0-5.0	MERCURY	J	0.0381	0.101	PQL	mg/Kg	J (all detects)
SL-154-SA6-SS-0.0-0.5	MERCURY	J	0.0691	0.0980	PQL	mg/Kg	J (all detects)
SL-166-SA6-SS-0.0-0.5	MERCURY	J	0.0071	0.0952	PQL	mg/Kg	J (all detects)
SL-168-SA6-SS-0.0-0.5	MERCURY	J	0.0129	0.0983	PQL	mg/Kg	J (all detects)
SL-171-SA6-SS-0.0-0.5	MERCURY	J	0.0078	0.0940	PQL	mg/Kg	J (all detects)
SL-172-SA6-SS-0.0-0.5	MERCURY	J	0.0329	0.106	PQL	mg/Kg	J (all detects)
SL-174-SA6-SS-0.0-0.5	MERCURY	J	0.0138	0.0983	PQL	mg/Kg	J (all detects)
SL-178-SA6-SS-0.0-0.5	MERCURY	J	0.0295	0.0952	PQL	mg/Kg	J (all detects)
SL-185-SA6-SS-0.0-0.5	MERCURY	J	0.0239	0.104	PQL	mg/Kg	J (all detects)
SL-301-SA6-SS-0.0-0.5	MERCURY	J	0.0206	0.101	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-9.0-10.0	METHANOL	J	460	540	PQL	ug/Kg	J (all detects)
SL-085-SA6-SB-7.0-8.0	ETHANOL	J	120	540	PQL	ug/Kg	J (all detects)
SL-168-SA6-SS-0.0-0.5	ETHANOL	J	200	500	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA6-SS-0.0-0.5	EFH (C15-C20)	J	1.0	2.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-151-SA6-SS-0.0-0.5	Chlordane	J	2.4	3.4	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	0.18	0.34	PQL	ug/Kg	
SL-154-SA6-SS-0.0-0.5	Chlordane	J	2.9	3.5	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	0.28	0.35	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.044	0.17	PQL	ug/Kg	
SL-166-SA6-SS-0.0-0.5	MIREX	J	0.12	0.34	PQL	ug/Kg	J (all detects)
SL-168-SA6-SS-0.0-0.5	DELTA-BHC	J	0.054	0.17	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.23	0.34	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.13	0.17	PQL	ug/Kg	
SL-169-SA6-SS-0.0-0.5	BETA-BHC	J	0.077	0.17	PQL	ug/Kg	J (all detects)
SL-171-SA6-SS-0.0-0.5	4,4'-DDD	J	0.14	0.34	PQL	ug/Kg	J (all detects)
	4,4'-DDE	J	0.25	0.34	PQL	ug/Kg	
SL-172-SA6-SS-0.0-0.5	4,4'-DDE	J	0.21	0.37	PQL	ug/Kg	J (all detects)
	4,4'-DDT	J	0.36	0.37	PQL	ug/Kg	
	ALPHA-BHC	J	0.067	0.18	PQL	ug/Kg	
SL-174-SA6-SS-0.0-0.5	Chlordane	J	2.6	3.4	PQL	ug/Kg	J (all detects)
SL-178-SA6-SS-0.0-0.5	HEPTACHLOR	J	0.078	0.17	PQL	ug/Kg	J (all detects)
SL-301-SA6-SS-0.0-0.5	4,4'-DDE	J	0.28	0.35	PQL	ug/Kg	J (all detects)
	gamma-BHC (Lindane)	J	0.047	0.17	PQL	ug/Kg	
	HEPTACHLOR	J	0.094	0.17	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.066	0.17	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-154-SA6-SS-0.0-0.5	Aroclor 5460	J	3.2	3.4	PQL	ug/Kg	J (all detects)
SL-168-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	3.0	3.3	PQL	ug/Kg	
SL-171-SA6-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-172-SA6-SS-0.0-0.5	AROCLOR 1260	J	0.73	1.8	PQL	ug/Kg	J (all detects)
SL-174-SA6-SS-0.0-0.5	AROCLOR 1254	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.1	1.7	PQL	ug/Kg	
	Aroclor 5460	J	2.1	3.3	PQL	ug/Kg	

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-178-SA6-SS-0.0-0.5	DICAMBA	J	0.77	1.2	PQL	ug/Kg	J (all detects)
SL-301-SA6-SS-0.0-0.5	2,4-D	J	1.8	3.7	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	1,2-DICHLOROETHANE	J	2.5	4.2	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.3	4.2	PQL	ug/Kg	
	TOLUENE	J	0.09	4.2	PQL	ug/Kg	
SL-085-SA6-SB-4.0-5.0	ACETONE	J	7.3	7.7	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.3	3.9	PQL	ug/Kg	
	TOLUENE	J	0.10	3.9	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	ANTHRACENE	J	35	180	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	120	180	PQL	ug/Kg	
	BENZO(A)PYRENE	J	110	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	130	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	78	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	72	180	PQL	ug/Kg	
	CARBAZOLE	J	30	180	PQL	ug/Kg	
	CHRYSENE	J	120	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	57	180	PQL	ug/Kg	
SL-084-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	23	180	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	21	180	PQL	ug/Kg	
	FLUORANTHENE	J	25	180	PQL	ug/Kg	
	PYRENE	J	25	180	PQL	ug/Kg	
SL-085-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	20	180	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	20	180	PQL	ug/Kg	
	PYRENE	J	19	180	PQL	ug/Kg	
SL-168-SA6-SS-0.0-0.5	Di-n-butylphthalate	J	17	170	PQL	ug/Kg	J (all detects)
SL-169-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	17	170	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	24	170	PQL	ug/Kg	
	PHENANTHRENE	J	22	170	PQL	ug/Kg	
	PYRENE	J	48	170	PQL	ug/Kg	
SL-171-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	J (all detects)
SL-178-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	87	170	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	19	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	76	170	PQL	ug/Kg	
SL-301-SA6-SS-0.0-0.5	ACENAPHTHENE	J	34	170	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	87	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	90	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	120	170	PQL	ug/Kg	
	CARBAZOLE	J	62	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	34	170	PQL	ug/Kg	
	DIBENZOFURAN	J	22	170	PQL	ug/Kg	
	FLUORENE	J	27	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	93	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	1.0	1.8	PQL	ug/Kg	J (all detects)
SL-084-SA6-SB-9.0-10.0	ANTHRACENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.7	1.8	PQL	ug/Kg	
SL-085-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	0.42	1.8	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.63	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.92	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
SL-151-SA6-SS-0.0-0.5	ANTHRACENE	J	6.1	17	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	15	17	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	64	180	PQL	ug/Kg	
	Di-n-butylphthalate	J	68	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	14	17	PQL	ug/Kg	
SL-154-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.42	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.90	1.7	PQL	ug/Kg	
SL-166-SA6-SS-0.0-0.5	ANTHRACENE	J	0.50	1.7	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-168-SA6-SS-0.0-0.5	ANTHRACENE	J	0.70	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.74	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.82	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-169-SA6-SS-0.0-0.5	INDENO(1,2,3-CD)PYRENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.70	1.7	PQL	ug/Kg	
SL-171-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	1.3	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-172-SA6-SS-0.0-0.5	ANTHRACENE	J	0.49	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	20	PQL	ug/Kg	
	CHRYSENE	J	1.1	1.8	PQL	ug/Kg	
	PYRENE	J	0.79	1.8	PQL	ug/Kg	
SL-174-SA6-SS-0.0-0.5	ANTHRACENE	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	
	CHRYSENE	J	0.84	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.75	1.7	PQL	ug/Kg	
	PYRENE	J	0.94	1.7	PQL	ug/Kg	
SL-178-SA6-SS-0.0-0.5	FLUORENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
SL-185-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	0.82	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	19	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE203 **Laboratory: LL**

EDD Filename: PrepDE203_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-301-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.69	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.88	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.4	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.3	18	PQL	ug/Kg	

LDC #: 26407C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE203 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: JL
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D (associated 3-15) (see below)
VII.	Duplicate Sample Analysis	SW	Dup ↓
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=16

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

Validated Samples:

1	SL-151-SA6-SS-0.0-0.5	11	SL-301-SA6-SS-0.0-0.5	21	(#5) MSD (HS) ↓ Dup ↓	31	
2	SL-154-SA6-SS-0.0-0.5	12	SL-084-SA6-SB-4.0-5.0	22		32	
3	SL-166-SA6-SS-0.0-0.5	13	SL-084-SA6-SB-9.0-10.0	23		33	
4	SL-168-SA6-SS-0.0-0.5	14	SL-085-SA6-SB-4.0-5.0	24		34	
5	SL-169-SA6-SS-0.0-0.5	15	SL-085-SA6-SB-7.0-8.0	25		35	
6	SL-171-SA6-SS-0.0-0.5	16	EB-SA6-SS-071911	26		36	
7	SL-172-SA6-SS-0.0-0.5	17	(#3) MS	27		37	
8	SL-174-SA6-SS-0.0-0.5	18	MSD	28		38	
9	SL-178-SA6-SS-0.0-0.5	19	↓ Dup	29		39	
10	SL-185-SA6-SS-0.0-0.5	20	(#5) MS (HS)	30		40	

Notes: #1 & 2 associate with MS/D, Dup, SD from SDG: DE202

LDC #: 26407C4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

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

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

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2												
Zr	6.1	3.05	3.0	2.6												

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 3-15

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	4	5	8	9	10	11	15						
Zr	8.1	4.05	3.8	3.5	3.4	3.6	2.9	3.4	3.6	3.7						
Tl	0.12	0.12 ~~0.06~~														

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 #: 26407C4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/19/11 Soil factor applied 100x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification										
	16	Action Level	No Quals									
B	3.8	1.9										
Sr	0.37	0.185										

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE203
Matrix: SOIL Level (low/med): LOW

74 (associated w/ 3-15)

Background Lab Sample ID: 6349712BKG Matrix Spike Lab Sample ID: 6349712MS Matrix Spike Duplicate Lab Sample ID: 6349712MSD
% Solids for Sample: 99.1
Batch Id(s): P20608C, P20626B

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		15398.7851		14810.2182		18749.2372		171.0308	199.8182	MG/KG	-344		1677		23	*		20	P
Antimony	121	0.1671	B	0.5447		0.7447		1.1872	1.1989	MG/KG	32	N	48	N	31	*	75 - 125	20	MS
Arsenic	75	10.0888		10.0433		15.5958		1.9786	1.9982	MG/KG	-2		276		43	*		20	MS
Barium	137	156.3068		129.1427		164.9299		9.8930	9.9909	MG/KG	-275		86		24	*		20	MS
Beryllium	9	0.8650		1.5397		1.9045		0.7914	0.7993	MG/KG	85		130	N	21	*	75 - 125	20	MS
Boron		5.7399		170.2500		202.5297		171.0308	199.8182	MG/KG	96		98		17		84 - 115	20	P
Cadmium	111	0.2054		1.3409		1.6285		0.9893	0.9991	MG/KG	115		142	N	19		75 - 125	20	MS
Calcium		3686.3408		3525.5819		4281.9604		342.0616	399.6363	MG/KG	-47		149		19			20	P
Chromium	52	30.9586		37.0986		42.3015		9.8930	9.9909	MG/KG	62	N	114		13		75 - 125	20	MS
Cobalt	59	12.9243		64.9572		81.8255		49.4648	49.9545	MG/KG	105		138	N	23	*	75 - 125	20	MS
Copper	63	25.8325		28.4324		37.2661		9.8930	9.9909	MG/KG	26	N	114		27	*	75 - 125	20	MS
Iron		27872.1533		22827.0571		27037.2261		85.5154	99.9091	MG/KG	-5900		-836		17			20	P
Lead	208	12.0121		12.8074		17.2563		2.9679	2.9973	MG/KG	27		175		30	*		20	MS
Lithium		30.0617		108.7867		129.0875		85.5154	99.9091	MG/KG	92		99		17		82 - 114	20	P
Magnesium		6141.8373		5240.1845		6531.5293		171.0308	199.8182	MG/KG	-527		195		22	*		20	P
Manganese		370.5170		323.1943		413.7245		42.7577	49.9545	MG/KG	-111		86		25	*		20	P
Molybdenum	98	0.8145		12.0615		14.9544		9.8930	9.9909	MG/KG	114		142	N	21	*	75 - 125	20	MS
Nickel	60	23.5318		28.7885		35.8474		9.8930	9.9909	MG/KG	53	N	123		22	*	75 - 125	20	MS
Phosphorus		537.9454		543.5761		643.7412		85.5154	99.9091	MG/KG	7		106		17			20	P
Potassium		4085.9421		4224.1102		5255.1408		855.1540	999.0908	MG/KG	16		117		22	*		20	P
Selenium	78	0.1938	B	2.4000		2.7695		1.9786	1.9982	MG/KG	112		129	N	14		75 - 125	20	MS
Silver	107	0.0717	B	11.6025		14.1431		9.8930	9.9909	MG/KG	117		141	N	20		75 - 125	20	MS
Sodium		115.0244		942.6482		1101.4577		855.1540	999.0908	MG/KG	97		99		16		75 - 125	20	P
Strontium		17.6718		98.5642		116.9286		85.5154	99.9091	MG/KG	95		99		17		75 - 115	20	P
Thallium	203	0.4153		0.7932		0.9328		0.3957	0.3996	MG/KG	96		130	N	16		75 - 125	20	MS
Tin		3.3171	B	312.4707		360.1413		342.0616	399.6363	MG/KG	90		89		14		80 - 110	20	P
Titanium		1330.6345		1276.3439		1602.1091		85.5154	99.9091	MG/KG	-63		272		23	*		20	P
Vanadium	51	58.9707		57.1813		71.1153		9.8930	9.9909	MG/KG	-18		122		22	*		20	MS
Zinc	66	113.3602		99.6023		131.4804		9.8930	9.9909	MG/KG	-139		181		28	*		20	MS
Zirconium		3.8464	B	83.9761		97.1926		85.5154	99.9091	MG/KG	94		93		15		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE203
Matrix: SOIL Level (low/med): LOW

25X (associated w/ 315)

Background Lab Sample ID: 6349712BKG
% Solids for Duplicate: 99.1
Batch ID(s): P20608C, P20626B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6349712DUP
% Solids for Sample: 99.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			15398.7851		14834.3233		4		P
Antimony	121		0.1671	B	0.1414	B	17		MS
Arsenic	75		10.0888		9.1327		10		MS
Barium	137		156.3068		145.0922		7		MS
Beryllium	9		0.8650		0.8402		3		MS
Boron		4.9	5.7399		5.4364		5		P
Cadmium	111	0.1	0.2054		0.2187		6		MS
Calcium			3686.3408		3903.3591		6		P
Chromium	52		30.9586		30.0373		3		MS
Cobalt	59		12.9243		11.5682		11		MS
Copper	63		25.8325		21.0046		21	*	MS
Iron			27872.1533		25517.6444		9		P
Lead	208		12.0121		11.6858		3		MS
Lithium			30.0617		27.0977		10		P
Magnesium			6141.8373		5626.0246		9		P
Manganese			370.5170		318.1111		15		P
Molybdenum	98		0.8145		0.7767		5		MS
Nickel	60		23.5318		20.6127		13		MS
Phosphorus			537.9454		495.4203		8		P
Potassium			4085.9421		3440.0673		17		P
Selenium	78		0.1938	B	0.2379	B	20		MS
Silver	107		0.0717	B	0.0885	B	21		MS
Sodium		98.9	115.0244		227.2782		66	*	P
Strontium			17.6718		21.1635		18		P
Thallium	203	0.1	0.4153		0.3576		15		MS
Tin			3.3171	B	3.0156	B	10		P
Titanium			1330.6345		1209.5504		10		P
Vanadium	51		58.9707		54.9411		7		MS
Zinc	66		113.3602		109.1180		4		MS
Zirconium			3.8464	B	4.6398	B	19		P

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

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE203
Matrix: SOIL Level (low/med): LOW

<5X

Background Lab Sample ID: 6349714BKG
% Solids for Duplicate: 99.0
Batch ID(s): P20711D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6349714DUP
% Solids for Sample: 99.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury			0.0069	U	0.0094	B	200		CV

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.

DE203 [illegible]

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.: DE203
Matrix: SOIL Level (low/med): LOW

J/UJ (3-15)

Background Lab Sample ID: 6349712BKG Serial Dilution Lab Sample ID: 6349712L
Batch ID(s): P20608C, P20626B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		155654.0000		167907.1000		8		P
Antimony	121	0.8280	B	1.8500	U	100		MS
Arsenic	75	49.9900		37.1000		26	E	MS
Barium	137	774.5000		574.0000		26	E	MS
Beryllium	9	4.2860		3.4950		18		MS
Boron		58.0200		81.6000	B	41		P
Cadmium	111	1.0180		1.1000	U	100		MS
Calcium		37262.2700		40191.7500		8		P
Chromium	52	153.4000		131.4000		14	E	MS
Cobalt	59	64.0400		47.5550		26	E	MS
Copper	63	128.0000		97.6500		24	E	MS
Iron		56347.4600		56219.1000		0		P
Lead	208	59.5200		48.4700		19	E	MS
Lithium		303.8700		330.8500		9		P
Magnesium		62082.9200		65787.5500		6		P
Manganese		3745.2600		4041.3000		8		P
Molybdenum	98	4.0360		3.1720		21		MS
Nickel	60	116.6000		88.0500		24	E	MS
Phosphorus		5437.6600		5658.5500		4		P
Potassium		41301.5200		43529.3000		5		P
Selenium	78	0.9604	B	1.4500	U	100		MS
Silver	107	0.3553	B	0.3955	B	11		MS
Sodium		1162.6900		1205.9500	B	4		P
Strontium		178.6300		191.1000		7		P
Thallium	203	2.0580		1.7375	B	16		MS
Tin		33.5300	B	39.4000	B	18		P
Titanium		13450.3200		14561.5000		8		P
Vanadium	51	292.2000		242.5500		17	E	MS
Zinc	66	561.7000		444.5500		21	E	MS
Zirconium		38.8800	B	56.1000	B	44		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

DE203 7413

SAMPLE DELIVERY GROUP

DE204

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jul-2011	TB-072011	6351929	TB	5030B	8015M	III
20-Jul-2011	TB-072011	6351929	TB	5030B	8260B	III
20-Jul-2011	TB-072011	6351929	TB	5030B	8260B SIM	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3050B	6010B	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3050B	6020	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3060A	7199	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8015B	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8015M	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8081A	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8082	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8151A	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8270C	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	3550B	8270C SIM	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	METHOD	300.0	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	METHOD	314.0	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	METHOD	7471A	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	METHOD	8015B	III
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351918	N	METHOD	8015M	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3050B	6010B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3050B	6020	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3060A	7199	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3550B	8015B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3550B	8015M	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3550B	8081A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3550B	8082	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	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
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3550B	8270C	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	3550B	8270C SIM	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	METHOD	300.0	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	METHOD	314.0	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	METHOD	7471A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	METHOD	8015B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351911	N	METHOD	8015M	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3050B	6010B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3050B	6020	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3060A	7199	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8015B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8015M	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8081A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8082	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8151A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8270C	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	3550B	8270C SIM	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	METHOD	300.0	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	METHOD	314.0	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	METHOD	7471A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	METHOD	8015B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351912	MS	METHOD	8015M	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3050B	6010B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3050B	6020	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8015B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8081A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8082	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8151A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8270C	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	3550B	8270C SIM	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	METHOD	7471A	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	METHOD	8015B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351913	MSD	METHOD	8015M	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5DUP	6351914	DUP	3050B	6010B	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5DUP	6351914	DUP	3050B	6020	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5DUP	6351914	DUP	3060A	7199	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5DUP	6351914	DUP	METHOD	300.0	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5DUP	6351914	DUP	METHOD	314.0	III
20-Jul-2011	SL-160-SA6-SS-0.0-0.5DUP	6351914	DUP	METHOD	7471A	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3050B	6010B	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3050B	6020	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3060A	7199	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8015B	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8015M	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8081A	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8082	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8151A	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8270C	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	3550B	8270C SIM	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	METHOD	300.0	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	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
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	METHOD	7471A	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	METHOD	8015B	III
20-Jul-2011	DUP04-SA6-QC-072011	6351925	FD	METHOD	8015M	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3050B	6010B	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3050B	6020	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3060A	7199	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8015B	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8015M	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8081A	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8082	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8151A	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8270C	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	3550B	8270C SIM	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	METHOD	300.0	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	METHOD	314.0	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	METHOD	6850	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	METHOD	7471A	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	METHOD	8015B	III
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351908	N	METHOD	8015M	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3050B	6010B	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3050B	6020	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3060A	7199	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3550B	8015B	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3550B	8015M	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3550B	8081A	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	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
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3550B	8151A	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3550B	8270C	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	3550B	8270C SIM	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	METHOD	300.0	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	METHOD	314.0	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	METHOD	7471A	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	METHOD	8015B	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351916	N	METHOD	8015M	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3050B	6010B	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3050B	6020	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3060A	7199	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8015B	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8015M	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8081A	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8082	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8151A	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8270C	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	3550B	8270C SIM	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	METHOD	300.0	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	METHOD	314.0	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	METHOD	7471A	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	METHOD	8015B	III
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351909	N	METHOD	8015M	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3050B	6010B	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3050B	6020	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	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
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8015B	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8015M	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8081A	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8082	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8151A	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8270C	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	3550B	8270C SIM	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	METHOD	300.0	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	METHOD	314.0	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	METHOD	7471A	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	METHOD	8015B	III
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351910	N	METHOD	8015M	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3050B	6010B	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3050B	6020	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3060A	7199	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8015B	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8015M	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8081A	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8082	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8151A	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8270C	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	3550B	8270C SIM	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	METHOD	300.0	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	METHOD	314.0	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	METHOD	7471A	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	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
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351915	N	METHOD	8015M	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3050B	6010B	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3050B	6020	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3060A	7199	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8015B	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8015M	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8081A	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8082	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8151A	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8270C	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	3550B	8270C SIM	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	METHOD	300.0	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	METHOD	314.0	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	METHOD	7471A	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	METHOD	8015B	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351923	N	METHOD	8015M	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3050B	6010B	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3050B	6020	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3060A	7199	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3550B	8015B	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3550B	8015M	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3550B	8081A	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3550B	8082	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3550B	8151A	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	3550B	8270C	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	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
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	METHOD	300.0	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	METHOD	314.0	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	METHOD	7471A	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	METHOD	8015B	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351917	N	METHOD	8015M	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3050B	6010B	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3050B	6020	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3060A	7199	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8015B	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8015M	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8081A	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8082	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8151A	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8270C	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	3550B	8270C SIM	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	METHOD	300.0	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	METHOD	314.0	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	METHOD	7471A	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	METHOD	8015B	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351924	N	METHOD	8015M	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3005A	6010B	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3020A	6020	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3510C	8015B	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3510C	8015M	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3510C	8082	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3510C	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
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3510C	8270C SIM	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	3520C	1625C	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	5030B	8015M	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	5030B	8260B	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	5030B	8260B SIM	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	8330	8330A	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	Gen Prep	300.0	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	Gen Prep	314.0	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	Gen Prep	7199	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	Gen Prep	8015B	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	Gen Prep	8015M	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	METHOD	7470A	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	METHOD	8315A	III
20-Jul-2011	EB-SA6-SB-072011	6351930	EB	METHOD	9012B	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3050B	6010B	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3050B	6020	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3060A	7199	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3550B	8081A	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3550B	8082	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3550B	8151A	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3550B	8270C	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	3550B	8270C SIM	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	METHOD	300.0	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	METHOD	314.0	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351920	N	METHOD	7471A	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	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
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3050B	6020	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3060A	7199	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3550B	8081A	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3550B	8082	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3550B	8151A	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3550B	8270C	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	3550B	8270C SIM	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	METHOD	300.0	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	METHOD	314.0	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351921	N	METHOD	7471A	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5DUP	P351921D270650B	DUP	METHOD	314.0	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5DUP	P351921D271800B	DUP	METHOD	300.0	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5MS	P351921R270736B	MS	METHOD	314.0	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5MS	P351921R271746B	MS	METHOD	300.0	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3050B	6010B	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3050B	6020	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3060A	7199	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3546	1625C	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8015B	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8015M	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8081A	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8082	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8151A	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8270C	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	3550B	8270C SIM	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	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
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	300.0	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	314.0	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	7471A	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	8015B	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	8015M	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	8315A	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351919	N	METHOD	9012B	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3050B	6010B	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3050B	6020	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3060A	7199	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3550B	8081A	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3550B	8082	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3550B	8151A	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3550B	8270C	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	3550B	8270C SIM	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	METHOD	300.0	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	METHOD	314.0	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351922	N	METHOD	7471A	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3050B	6010B	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3050B	6020	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3060A	7199	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3546	1625C	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3550B	8015B	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3550B	8015M	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3550B	8082	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	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
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	3550B	8270C SIM	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	5035	8015M	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	5035	8260B	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	5035	8260B SIM	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	8330	8330A	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	300.0	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	314.0	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	6850	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	7471A	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	8015B	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	8015M	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	8315A	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351928	N	METHOD	9012B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3050B	6010B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3050B	6020	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3060A	7199	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3550B	8015B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3550B	8015M	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3550B	8082	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3550B	8270C	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	3550B	8270C SIM	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	5035	8015M	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	5035	8260B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	5035	8260B SIM	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	METHOD	300.0	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	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
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	METHOD	6850	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	METHOD	7471A	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	METHOD	8015B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351926	N	METHOD	8015M	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3050B	6010B	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3050B	6020	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3060A	7199	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3550B	8015B	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3550B	8015M	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3550B	8082	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3550B	8270C	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	3550B	8270C SIM	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	5035	8015M	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	METHOD	300.0	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	METHOD	314.0	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	METHOD	6850	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	METHOD	7471A	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	METHOD	8015B	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351927	N	METHOD	8015M	III

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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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

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

Sample ID: **DUP04-SA6-QC-072011** ***Collected:*** **7/20/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-086-SA6-SB-4.0-5.0** ***Collected:*** **7/20/2011 2:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

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

Sample ID: **SL-086-SA6-SB-9.0-10.0** ***Collected:*** **7/20/2011 2:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-097-SA6-SB-1.5-2.5** ***Collected:*** **7/20/2011 2:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: **SL-156-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 8:31:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-157-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 9:14:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-159-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 9:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.81	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-160-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:24:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.80	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.80	MDL	1.5	PQL	mg/Kg	J	Z, Q

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.80	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-220-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-310-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-072011 *Collected:* 7/20/2011 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
BORON	0.0026	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.34	J	0.356	MDL	4.95	PQL	mg/Kg	UJ	B, FD
SODIUM	90.3	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.28	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.455	MDL	4.95	PQL	mg/Kg	U	B, 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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-086-SA6-SB-4.0-5.0 ***Collected:*** 7/20/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.49	J	0.376	MDL	5.22	PQL	mg/Kg	U	B
TIN	2.26	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.480	MDL	5.22	PQL	mg/Kg	U	B, B

Sample ID: SL-086-SA6-SB-9.0-10.0 ***Collected:*** 7/20/2011 2:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.37	J	0.404	MDL	5.61	PQL	mg/Kg	U	B
TIN	2.51	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.516	MDL	5.61	PQL	mg/Kg	U	B, B

Sample ID: SL-097-SA6-SB-1.5-2.5 ***Collected:*** 7/20/2011 2:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.916	J	0.367	MDL	5.10	PQL	mg/Kg	U	B, F
TIN	2.30	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.66	J	0.469	MDL	5.10	PQL	mg/Kg	U	B

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.00	J	0.359	MDL	4.98	PQL	mg/Kg	U	B
TIN	2.64	J	0.319	MDL	9.97	PQL	mg/Kg	U	B
Zirconium	3.16	J	0.459	MDL	4.98	PQL	mg/Kg	U	B, B

Sample ID: SL-157-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.361	MDL	5.02	PQL	mg/Kg	U	B
TIN	2.19	J	0.321	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	1.97	J	0.461	MDL	5.02	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.93	J	0.358	MDL	4.98	PQL	mg/Kg	U	B
SODIUM	90.8	J	5.92	MDL	99.5	PQL	mg/Kg	J	Z
TIN	2.45	J	0.319	MDL	9.95	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.458	MDL	4.98	PQL	mg/Kg	U	B

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.18	J	0.725	MDL	10.1	PQL	mg/Kg	UJ	B, F, FD
TIN	2.04	J	0.645	MDL	20.1	PQL	mg/Kg	U	B

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	100	J	5.99	MDL	101	PQL	mg/Kg	J	Z
Zirconium	2.61	J	0.463	MDL	5.04	PQL	mg/Kg	U	B, B

Sample ID: SL-162-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.03	J	0.346	MDL	4.81	PQL	mg/Kg	U	B, F
TIN	4.50	J	0.308	MDL	9.62	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.443	MDL	4.81	PQL	mg/Kg	U	B

Sample ID: SL-164-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.03	J	0.364	MDL	5.06	PQL	mg/Kg	U	B
TIN	2.36	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.99	J	0.466	MDL	5.06	PQL	mg/Kg	U	B

Sample ID: SL-165-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.33	J	0.354	MDL	4.92	PQL	mg/Kg	U	B, F

* 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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-165-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 10:24:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	92.4	J	5.86	MDL	98.5	PQL	mg/Kg	J	Z
TIN	2.53	J	0.315	MDL	9.85	PQL	mg/Kg	U	B
Zirconium	2.20	J	0.453	MDL	4.92	PQL	mg/Kg	U	B

Sample ID: SL-167-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 8:14:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.52	J	0.362	MDL	5.03	PQL	mg/Kg	U	B
TIN	2.19	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.94	J	0.463	MDL	5.03	PQL	mg/Kg	U	B

Sample ID: SL-215-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 1:39:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.82	J	0.348	MDL	4.83	PQL	mg/Kg	U	B
TIN	2.40	J	0.309	MDL	9.66	PQL	mg/Kg	U	B
Zirconium	3.02	J	0.444	MDL	4.83	PQL	mg/Kg	U	B, B

Sample ID: SL-218-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 12:38:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.27	J	0.354	MDL	4.92	PQL	mg/Kg	U	B, F
SODIUM	72.6	J	5.85	MDL	98.4	PQL	mg/Kg	J	Z
TIN	2.57	J	0.315	MDL	9.84	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.452	MDL	4.92	PQL	mg/Kg	U	B

Sample ID: SL-220-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 1:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.36	J	0.353	MDL	4.91	PQL	mg/Kg	U	B
SODIUM	83.8	J	5.84	MDL	98.2	PQL	mg/Kg	J	Z
TIN	2.81	J	0.314	MDL	9.82	PQL	mg/Kg	U	B
Zirconium	1.90	J	0.452	MDL	4.91	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-310-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.28	J	0.364	MDL	5.05	PQL	mg/Kg	U	B
SODIUM	71.4	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	2.40	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.78	J	0.465	MDL	5.05	PQL	mg/Kg	U	B

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.98	J	0.352	MDL	4.89	PQL	mg/Kg	U	B
TIN	2.55	J	0.313	MDL	9.77	PQL	mg/Kg	U	B
Zirconium	2.41	J	0.449	MDL	4.89	PQL	mg/Kg	U	B

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.87	J	0.357	MDL	4.96	PQL	mg/Kg	U	B
SODIUM	94.0	J	5.90	MDL	99.2	PQL	mg/Kg	J	Z
TIN	2.56	J	0.318	MDL	9.92	PQL	mg/Kg	U	B
Zirconium	2.16	J	0.456	MDL	4.96	PQL	mg/Kg	U	B, B

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.224	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.976		0.0510	MDL	0.102	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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: DUP04-SA6-QC-072011 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.108	MDL	0.408	PQL	mg/Kg	J	E, A

Sample ID: DUP04-SA6-QC-072011 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.172	J	0.0754	MDL	0.204	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.1		0.0815	MDL	0.408	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.07		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.147		0.0449	MDL	0.102	PQL	mg/Kg	J	Q, FD
CHROMIUM	37.0		0.122	MDL	0.408	PQL	mg/Kg	J	Q, E
COBALT	13.8		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	19.9		0.0815	MDL	0.408	PQL	mg/Kg	J	Q, E
LEAD	11.5		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	27.9		0.102	MDL	0.408	PQL	mg/Kg	J	Q, E, A
SILVER	0.0872	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q, E, FD
THALLIUM	0.446		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	66.7		0.0224	MDL	0.102	PQL	mg/Kg	J	E
ZINC	102		0.571	MDL	3.06	PQL	mg/Kg	J	E

Sample ID: SL-086-SA6-SB-4.0-5.0 ***Collected:*** 7/20/2011 2:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.316	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z, Q

Sample ID: SL-086-SA6-SB-4.0-5.0 ***Collected:*** 7/20/2011 2:40:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	4.11		0.0522	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: SL-086-SA6-SB-4.0-5.0 ***Collected:*** 7/20/2011 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
BARIUM	144		0.111	MDL	0.418	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-086-SA6-SB-4.0-5.0 ***Collected:*** 7/20/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q, B
ARSENIC	27.4		0.0835	MDL	0.418	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.820		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.284		0.0459	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	28.8		0.125	MDL	0.418	PQL	mg/Kg	J	Q, E
COBALT	24.7		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	36.5		0.0835	MDL	0.418	PQL	mg/Kg	J	Q, E
LEAD	12.8		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, E
NICKEL	19.6		0.104	MDL	0.418	PQL	mg/Kg	J	Q, E, A
SILVER	0.0768	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.380		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	61.1		0.0230	MDL	0.104	PQL	mg/Kg	J	E
ZINC	101		0.585	MDL	3.13	PQL	mg/Kg	J	E

Sample ID: SL-086-SA6-SB-9.0-10.0 ***Collected:*** 7/20/2011 2:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.152	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z, Q

Sample ID: SL-086-SA6-SB-9.0-10.0 ***Collected:*** 7/20/2011 2:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.891		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-086-SA6-SB-9.0-10.0 ***Collected:*** 7/20/2011 2:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	145		0.114	MDL	0.431	PQL	mg/Kg	J	E, A

Sample ID: SL-086-SA6-SB-9.0-10.0 ***Collected:*** 7/20/2011 2:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0884	J	0.0798	MDL	0.216	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.62		0.0862	MDL	0.431	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.938		0.0172	MDL	0.108	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-086-SA6-SB-9.0-10.0 ***Collected:*** 7/20/2011 2:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.141		0.0474	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	31.8		0.129	MDL	0.431	PQL	mg/Kg	J	Q, E
COBALT	11.9		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	15.2		0.0862	MDL	0.431	PQL	mg/Kg	J	Q, E
LEAD	8.54		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	22.4		0.108	MDL	0.431	PQL	mg/Kg	J	Q, E, A
SILVER	0.0443	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.488		0.0323	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	64.6		0.0237	MDL	0.108	PQL	mg/Kg	J	E
ZINC	88.8		0.604	MDL	3.23	PQL	mg/Kg	J	E

Sample ID: SL-097-SA6-SB-1.5-2.5 ***Collected:*** 7/20/2011 2:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0597	MDL	0.412	PQL	mg/Kg	J	Z, Q

Sample ID: SL-097-SA6-SB-1.5-2.5 ***Collected:*** 7/20/2011 2:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.56		0.0515	MDL	0.103	PQL	mg/Kg	J	Q, E

Sample ID: SL-097-SA6-SB-1.5-2.5 ***Collected:*** 7/20/2011 2:05:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.109	MDL	0.412	PQL	mg/Kg	J	E, A

Sample ID: SL-097-SA6-SB-1.5-2.5 ***Collected:*** 7/20/2011 2:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0762	MDL	0.206	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.44		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.834		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.266		0.0453	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	27.8		0.124	MDL	0.412	PQL	mg/Kg	J	Q, E
COBALT	13.1		0.0206	MDL	0.103	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-097-SA6-SB-1.5-2.5 ***Collected:*** 7/20/2011 2:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	24.8		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
LEAD	16.1		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	21.0		0.103	MDL	0.412	PQL	mg/Kg	J	Q, E, A
SILVER	0.0783	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.344		0.0309	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	63.3		0.0227	MDL	0.103	PQL	mg/Kg	J	E
ZINC	101		0.577	MDL	3.09	PQL	mg/Kg	J	E

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.211	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.825		0.0503	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***Analysis Type:*** REA4 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	156		0.267	MDL	1.01	PQL	mg/Kg	J	E, A

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0745	MDL	0.201	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.8		0.0805	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.32		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.211		0.0443	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	42.0		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E
COBALT	13.4		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	29.0		0.0805	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	14.1		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	31.7		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.104		0.0143	MDL	0.101	PQL	mg/Kg	J	Q, E
THALLIUM	0.466		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	70.8		0.0221	MDL	0.101	PQL	mg/Kg	J	E
ZINC	117		0.564	MDL	3.02	PQL	mg/Kg	J	E

Sample ID: SL-157-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:14:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0565	MDL	0.390	PQL	mg/Kg	J	Z, Q

Sample ID: SL-157-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:14:00 ***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		0.0487	MDL	0.0974	PQL	mg/Kg	J	Q, E

Sample ID: SL-157-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:14:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	124		0.103	MDL	0.390	PQL	mg/Kg	J	E, A

Sample ID: SL-157-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0721	U	0.0721	MDL	0.195	PQL	mg/Kg	UJ	Q
ARSENIC	6.23		0.0779	MDL	0.390	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.597		0.0156	MDL	0.0974	PQL	mg/Kg	J	Q, E
CADMIUM	0.281		0.0429	MDL	0.0974	PQL	mg/Kg	J	Q
CHROMIUM	27.4		0.117	MDL	0.390	PQL	mg/Kg	J	Q, E
COBALT	10.0		0.0195	MDL	0.0974	PQL	mg/Kg	J	Q, E
COPPER	18.5		0.0779	MDL	0.390	PQL	mg/Kg	J	Q, E
LEAD	8.20		0.0099	MDL	0.195	PQL	mg/Kg	J	Q, E
NICKEL	15.5		0.0974	MDL	0.390	PQL	mg/Kg	J	Q, E, A
SILVER	0.0578	J	0.0138	MDL	0.0974	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.296		0.0292	MDL	0.0974	PQL	mg/Kg	J	Q
VANADIUM	40.9		0.0214	MDL	0.0974	PQL	mg/Kg	J	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-157-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	78.8		0.546	MDL	2.92	PQL	mg/Kg	J	E

Sample ID: SL-159-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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	0.255	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-159-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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	0.892		0.0508	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-159-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:40:00 ***Analysis Type:*** REA4 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.3		0.269	MDL	1.02	PQL	mg/Kg	J	E, A

Sample ID: SL-159-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.143	J	0.0751	MDL	0.203	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.2		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.05		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.250		0.0447	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	38.4		0.122	MDL	0.406	PQL	mg/Kg	J	Q, E
COBALT	13.6		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	25.1		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
LEAD	12.5		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	29.0		0.102	MDL	0.406	PQL	mg/Kg	J	Q, E, A
SILVER	0.0960	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.466		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	67.0		0.0223	MDL	0.102	PQL	mg/Kg	J	E
ZINC	132		0.569	MDL	3.05	PQL	mg/Kg	J	E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-160-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-160-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.690		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-160-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	128		0.107	MDL	0.403	PQL	mg/Kg	J	E, A

Sample ID: SL-160-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.119	J	0.0745	MDL	0.201	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.70		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.965		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.0784	J	0.0443	MDL	0.101	PQL	mg/Kg	J	Z, Q, FD
CHROMIUM	29.0		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E
COBALT	8.89		0.0201	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	17.4		0.0806	MDL	0.403	PQL	mg/Kg	J	Q, E
LEAD	8.82		0.0103	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	20.9		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E, A
SILVER	0.0379	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q, E, FD
THALLIUM	0.350		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	54.7		0.0222	MDL	0.101	PQL	mg/Kg	J	E
ZINC	81.5		0.564	MDL	3.02	PQL	mg/Kg	J	E

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0580	MDL	0.400	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.532		0.0500	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.106	MDL	0.400	PQL	mg/Kg	J	E, A

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0740	MDL	0.200	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.61		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.680		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.221		0.0440	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	23.2		0.120	MDL	0.400	PQL	mg/Kg	J	Q, E
COBALT	9.55		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	16.3		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E
LEAD	10.4		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E
NICKEL	19.6		0.100	MDL	0.400	PQL	mg/Kg	J	Q, E, A
SILVER	0.0683	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.339		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	60.2		0.0220	MDL	0.100	PQL	mg/Kg	J	E
ZINC	93.0		0.560	MDL	3.00	PQL	mg/Kg	J	E

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.254	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.950		0.0496	MDL	0.0993	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***Analysis Type:*** REA4 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	92.4		0.263	MDL	0.993	PQL	mg/Kg	J	E, A

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.175	J	0.0735	MDL	0.199	PQL	mg/Kg	UJ	Q, B
ARSENIC	11.9		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.08		0.0159	MDL	0.0993	PQL	mg/Kg	J	Q, E
CADMIUM	0.236		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	39.3		0.119	MDL	0.397	PQL	mg/Kg	J	Q, E
COBALT	15.5		0.0199	MDL	0.0993	PQL	mg/Kg	J	Q, E
COPPER	27.2		0.0794	MDL	0.397	PQL	mg/Kg	J	Q, E
LEAD	13.7		0.0101	MDL	0.199	PQL	mg/Kg	J	Q, E
NICKEL	31.3		0.0993	MDL	0.397	PQL	mg/Kg	J	Q, E, A
SILVER	0.116		0.0141	MDL	0.0993	PQL	mg/Kg	J	Q, E
THALLIUM	0.531		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q
VANADIUM	69.8		0.0218	MDL	0.0993	PQL	mg/Kg	J	E
ZINC	116		0.556	MDL	2.98	PQL	mg/Kg	J	E

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:24:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.293	J	0.0582	MDL	0.402	PQL	mg/Kg	J	Z, Q

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:24:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0502	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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
BARIUM	176		0.106	MDL	0.402	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:24:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.173	J	0.0743	MDL	0.201	PQL	mg/Kg	UJ	Q, B
ARSENIC	17.2		0.0803	MDL	0.402	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.05		0.0161	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.241		0.0442	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	35.7		0.120	MDL	0.402	PQL	mg/Kg	J	Q, E
COBALT	13.2		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	25.1		0.0803	MDL	0.402	PQL	mg/Kg	J	Q, E
LEAD	13.1		0.0102	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	26.3		0.100	MDL	0.402	PQL	mg/Kg	J	Q, E, A
SILVER	0.109		0.0143	MDL	0.100	PQL	mg/Kg	J	Q, E
THALLIUM	0.489		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	68.0		0.0221	MDL	0.100	PQL	mg/Kg	J	E
ZINC	124		0.562	MDL	3.01	PQL	mg/Kg	J	E

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0567	MDL	0.391	PQL	mg/Kg	J	Z, Q

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.817		0.0489	MDL	0.0977	PQL	mg/Kg	J	Q, E

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** REA4 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.259	MDL	0.977	PQL	mg/Kg	J	E, A

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.151	J	0.0723	MDL	0.195	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.55		0.0782	MDL	0.391	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.818		0.0156	MDL	0.0977	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.251		0.0430	MDL	0.0977	PQL	mg/Kg	J	Q
CHROMIUM	31.8		0.117	MDL	0.391	PQL	mg/Kg	J	Q, E
COBALT	13.7		0.0195	MDL	0.0977	PQL	mg/Kg	J	Q, E
COPPER	31.3		0.0782	MDL	0.391	PQL	mg/Kg	J	Q, E
LEAD	12.2		0.010	MDL	0.195	PQL	mg/Kg	J	Q, E
NICKEL	23.6		0.0977	MDL	0.391	PQL	mg/Kg	J	Q, E, A
SILVER	0.0756	J	0.0139	MDL	0.0977	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.444		0.0293	MDL	0.0977	PQL	mg/Kg	J	Q
VANADIUM	64.9		0.0215	MDL	0.0977	PQL	mg/Kg	J	E
ZINC	128		0.547	MDL	2.93	PQL	mg/Kg	J	E

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	200		1.41	MDL	7.53	PQL	mg/Kg	J	E

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.402		0.0582	MDL	0.402	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.97		0.0502	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** REA4 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.266	MDL	1.00	PQL	mg/Kg	J	E, A

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.259		0.0743	MDL	0.201	PQL	mg/Kg	UJ	Q, 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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	11.2		0.0803	MDL	0.402	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.33		0.0161	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	3.97		0.0442	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	53.0		0.120	MDL	0.402	PQL	mg/Kg	J	Q, E
COBALT	16.3		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	41.1		0.0803	MDL	0.402	PQL	mg/Kg	J	Q, E
LEAD	86.6		0.0102	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	52.3		0.100	MDL	0.402	PQL	mg/Kg	J	Q, E, A
SILVER	9.62		0.0143	MDL	0.100	PQL	mg/Kg	J	Q, E
THALLIUM	0.628		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	81.8		0.0221	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.194	J	0.0582	MDL	0.401	PQL	mg/Kg	J	Z, Q

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.18		0.0502	MDL	0.100	PQL	mg/Kg	J	Q, E

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***Analysis Type:*** REA4 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.266	MDL	1.00	PQL	mg/Kg	J	E, A

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.198	J	0.0742	MDL	0.201	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.7		0.0803	MDL	0.401	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.11		0.0161	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.501		0.0441	MDL	0.100	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.120	MDL	0.401	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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-218-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 12:38:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	12.6		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	34.0		0.0803	MDL	0.401	PQL	mg/Kg	J	Q, E
LEAD	27.9		0.0102	MDL	0.201	PQL	mg/Kg	J	Q, E
NICKEL	38.6		0.100	MDL	0.401	PQL	mg/Kg	J	Q, E, A
SILVER	0.466		0.0142	MDL	0.100	PQL	mg/Kg	J	Q, E
THALLIUM	0.494		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	60.0		0.0221	MDL	0.100	PQL	mg/Kg	J	E
ZINC	131		0.562	MDL	3.01	PQL	mg/Kg	J	E

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***Analysis Type:*** **REA** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	121		0.0496	MDL	0.972	PQL	mg/Kg	J	Q, E
ZINC	230		2.72	MDL	14.6	PQL	mg/Kg	J	E

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.316	J	0.0564	MDL	0.389	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.69		0.0486	MDL	0.0972	PQL	mg/Kg	J	Q, E

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.103	MDL	0.389	PQL	mg/Kg	J	E, A

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.550		0.0719	MDL	0.194	PQL	mg/Kg	J	Q
ARSENIC	9.06		0.0778	MDL	0.389	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-220-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:19:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.786		0.0156	MDL	0.0972	PQL	mg/Kg	J	Q, E
CADMIUM	2.84		0.0428	MDL	0.0972	PQL	mg/Kg	J	Q
CHROMIUM	53.4		0.117	MDL	0.389	PQL	mg/Kg	J	Q, E
COBALT	13.4		0.0194	MDL	0.0972	PQL	mg/Kg	J	Q, E
COPPER	58.3		0.0778	MDL	0.389	PQL	mg/Kg	J	Q, E
NICKEL	76.0		0.0972	MDL	0.389	PQL	mg/Kg	J	Q, E, A
SILVER	3.26		0.0138	MDL	0.0972	PQL	mg/Kg	J	Q, E
THALLIUM	0.389		0.0292	MDL	0.0972	PQL	mg/Kg	J	Q
VANADIUM	52.5		0.0214	MDL	0.0972	PQL	mg/Kg	J	E

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.111	J	0.0563	MDL	0.389	PQL	mg/Kg	J	Z, Q

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.684		0.0486	MDL	0.0971	PQL	mg/Kg	J	Q, E

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.4		0.103	MDL	0.389	PQL	mg/Kg	J	E, A

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0792	J	0.0719	MDL	0.194	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.73		0.0777	MDL	0.389	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.481		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q, E
CADMIUM	0.699		0.0427	MDL	0.0971	PQL	mg/Kg	J	Q
CHROMIUM	20.7		0.117	MDL	0.389	PQL	mg/Kg	J	Q, E
COBALT	5.53		0.0194	MDL	0.0971	PQL	mg/Kg	J	Q, E
COPPER	15.7		0.0777	MDL	0.389	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: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-310-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:51:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	68.5		0.0099	MDL	0.194	PQL	mg/Kg	J	Q, E
NICKEL	17.3		0.0971	MDL	0.389	PQL	mg/Kg	J	Q, E, A
SILVER	0.673		0.0138	MDL	0.0971	PQL	mg/Kg	J	Q, E
THALLIUM	0.205		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	31.2		0.0214	MDL	0.0971	PQL	mg/Kg	J	E
ZINC	116		0.544	MDL	2.91	PQL	mg/Kg	J	E

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.184	J	0.0572	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.03		0.0493	MDL	0.0987	PQL	mg/Kg	J	Q, E

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 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	166		0.105	MDL	0.395	PQL	mg/Kg	J	E, A

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.141	J	0.0730	MDL	0.197	PQL	mg/Kg	UJ	Q, B
ARSENIC	11.6		0.0789	MDL	0.395	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.13		0.0158	MDL	0.0987	PQL	mg/Kg	J	Q, E
CADMIUM	0.108		0.0434	MDL	0.0987	PQL	mg/Kg	J	Q
CHROMIUM	42.2		0.118	MDL	0.395	PQL	mg/Kg	J	Q, E
COBALT	13.0		0.0197	MDL	0.0987	PQL	mg/Kg	J	Q, E
COPPER	22.9		0.0789	MDL	0.395	PQL	mg/Kg	J	Q, E
LEAD	12.2		0.0101	MDL	0.197	PQL	mg/Kg	J	Q, E
NICKEL	29.4		0.0987	MDL	0.395	PQL	mg/Kg	J	Q, E, A
SILVER	0.0770	J	0.0140	MDL	0.0987	PQL	mg/Kg	J	Z, 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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-321-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.476		0.0296	MDL	0.0987	PQL	mg/Kg	J	Q
VANADIUM	73.9		0.0217	MDL	0.0987	PQL	mg/Kg	J	E
ZINC	108		0.553	MDL	2.96	PQL	mg/Kg	J	E

Sample ID: SL-322-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:52:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.215	J	0.0564	MDL	0.389	PQL	mg/Kg	J	Z, Q

Sample ID: SL-322-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:52:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.933		0.0487	MDL	0.0973	PQL	mg/Kg	J	Q, E

Sample ID: SL-322-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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	168		0.103	MDL	0.389	PQL	mg/Kg	J	E, A

Sample ID: SL-322-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:52:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0720	MDL	0.195	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.0		0.0779	MDL	0.389	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.02		0.0156	MDL	0.0973	PQL	mg/Kg	J	Q, E
CADMIUM	0.136		0.0428	MDL	0.0973	PQL	mg/Kg	J	Q
CHROMIUM	35.1		0.117	MDL	0.389	PQL	mg/Kg	J	Q, E
COBALT	12.8		0.0195	MDL	0.0973	PQL	mg/Kg	J	Q, E
COPPER	20.1		0.0779	MDL	0.389	PQL	mg/Kg	J	Q, E
LEAD	13.1		0.0099	MDL	0.195	PQL	mg/Kg	J	Q, E
NICKEL	25.7		0.0973	MDL	0.389	PQL	mg/Kg	J	Q, E, A
SILVER	0.0899	J	0.0138	MDL	0.0973	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.439		0.0292	MDL	0.0973	PQL	mg/Kg	J	Q
VANADIUM	64.3		0.0214	MDL	0.0973	PQL	mg/Kg	J	E
ZINC	112		0.545	MDL	2.92	PQL	mg/Kg	J	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: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP04-SA6-QC-072011 **Collected:** 7/20/2011 8:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-156-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 8:31:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 9:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 8:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, FD

Sample ID: SL-162-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 9:51:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 10:24:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 1:51:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.80	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-321-SA6-SS-0.0-0.5 **Collected:** 7/20/2011 10:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.20	MDL	1.0	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: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

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

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0079	J	0.0067	MDL	0.0950	PQL	mg/Kg	J	Z

Sample ID: SL-086-SA6-SB-4.0-5.0 *Collected:* 7/20/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0206	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0070	MDL	0.0991	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0070	MDL	0.0990	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0084	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-162-SA6-SS-0.0-0.5 **Collected: 7/20/2011 9:51:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	J	0.0067	MDL	0.0946	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA6-SS-0.0-0.5 **Collected: 7/20/2011 8:57:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0094	J	0.0070	MDL	0.0994	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA6-SS-0.0-0.5 **Collected: 7/20/2011 10:24:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0111	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA6-SS-0.0-0.5 **Collected: 7/20/2011 8:14:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0158	J	0.0067	MDL	0.0946	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA6-SS-0.0-0.5 **Collected: 7/20/2011 1:39:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0853	J	0.0070	MDL	0.0994	PQL	mg/Kg	J	Z

Sample ID: SL-218-SA6-SS-0.0-0.5 **Collected: 7/20/2011 12:38:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0105	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-220-SA6-SS-0.0-0.5 **Collected: 7/20/2011 1:19:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0868	J	0.0070	MDL	0.0994	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SS-0.0-0.5 **Collected: 7/20/2011 1:51:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0506	J	0.0069	MDL	0.0980	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0076	J	0.0070	MDL	0.0994	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix:** AQ

Sample ID: EB-SA6-SB-072011 *Collected:* 7/20/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	6.29		0.521	MDL	1.04	PQL	ng/L	UJ	B, S

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-097-SA6-SB-1.5-2.5 *Collected:* 7/20/2011 2:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	287	J	174	MDL	349	PQL	ng/Kg	U	B

Sample ID: SL-215-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	317	J	167	MDL	335	PQL	ng/Kg	U	B

Method Category: SVOA

Method: 8015M **Matrix:** AQ

Sample ID: EB-SA6-SB-072011 *Collected:* 7/20/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: **SL-157-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 9:14:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.5	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: **SL-159-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 9:40:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.42	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-160-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 8:15:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.1	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q
EFH (C21-C30)	12		0.41	MDL	1.2	PQL	mg/Kg	J	Q
EFH (C8-C11)	1.2	J	0.41	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-160-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: **SL-162-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 9:51:00** ***Analysis Type:*** **REA** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.2	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: **SL-164-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 8:57:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.86	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.51	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-165-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 10:24:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.87	J	0.41	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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-167-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:14:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.8	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.46	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.57	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.095	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z, FD

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.25	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.095	U	0.095	MDL	0.35	PQL	ug/Kg	UJ	FD

Sample ID: SL-162-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.8	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.046	J	0.034	MDL	0.17	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MIREX	0.094	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***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'-DDD	0.65	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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
BETA-BHC	0.16	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-220-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:19:00 ***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'-DDE	0.69	U	0.69	MDL	0.69	PQL	ug/Kg	R	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	R	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	R	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	R	S
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	R	S
DELTA-BHC	0.052	U	0.052	MDL	0.17	PQL	ug/Kg	R	S
DIELDRIN	1.0	U	1.0	MDL	1.0	PQL	ug/Kg	R	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	R	S
ENDOSULFAN II	0.19	U	0.19	MDL	0.34	PQL	ug/Kg	R	S
ENDOSULFAN SULFATE	0.49	U	0.49	MDL	0.49	PQL	ug/Kg	R	S
ENDRIN	0.38	U	0.38	MDL	0.38	PQL	ug/Kg	R	S
ENDRIN ALDEHYDE	1.1	U	1.1	MDL	1.1	PQL	ug/Kg	R	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	S
gamma-BHC (Lindane)	0.084	U	0.084	MDL	0.17	PQL	ug/Kg	R	S
HEPTACHLOR	0.14	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	R	S
METHOXYCHLOR	5.3	U	5.3	MDL	5.3	PQL	ug/Kg	R	S
MIREX	0.92	U	0.92	MDL	0.92	PQL	ug/Kg	R	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	1.7	U	1.7	MDL	1.7	PQL	ug/Kg	UJ	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	8.1		0.81	MDL	3.4	PQL	ug/Kg	J	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.69	U	0.69	MDL	0.69	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.47	U	0.47	MDL	0.47	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.80	U	0.80	MDL	0.80	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.44	U	0.44	MDL	0.44	PQL	ug/Kg	UJ	S
TOXAPHENE	54	U	54	MDL	54	PQL	ug/Kg	UJ	S

Sample ID: SL-321-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
4,4'-DDT	0.12	U	0.12	MDL	0.35	PQL	ug/Kg	UJ	S
ALDRIN	0.067	U	0.067	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	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.81	U	0.81	MDL	3.5	PQL	ug/Kg	UJ	S
DELTA-BHC	0.037	U	0.037	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	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	1.2	U	1.2	MDL	1.2	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.035	U	0.035	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.35	U	0.35	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.067	U	0.067	MDL	0.35	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.071	U	0.071	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDT	0.12	U	0.12	MDL	0.34	PQL	ug/Kg	UJ	S
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.11	U	0.11	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	S
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP04-SA6-QC-072011 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	FD

Sample ID: SL-156-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:31:00 ***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	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.34	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.2	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***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 1254	0.52	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-220-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:19:00 ***Analysis Type:*** RES ***Dilution:*** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	130	J	51	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	26	J	7.9	MDL	34	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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.73	U	0.73	MDL	1.7	PQL	ug/Kg	UJ	FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	FD

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *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	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.082	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.8		0.63	MDL	1.7	PQL	ug/Kg	J	FD
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L
MCPP	740		76	MDL	250	PQL	ug/Kg	UJ	Q, B, FD

Sample ID: SL-162-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **8151A** ***Matrix:*** **SO**

Sample ID: **SL-164-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 8:57:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-165-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 10:24:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.0	J	0.81	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-167-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 8:14:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: **SL-215-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:39:00** ***Analysis Type:*** **DL-BASE/NEUTRAL** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	4.0	U	4.0	MDL	12	PQL	ug/Kg	R	L

Sample ID: **SL-218-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 12:38:00** ***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	4.0	U	4.0	MDL	12	PQL	ug/Kg	R	L

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***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	4.0	U	4.0	MDL	12	PQL	ug/Kg	R	L

Sample ID: **SL-220-SA6-SS-0.0-0.5** ***Collected:*** **7/20/2011 1:19:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.2	U	1.2	MDL	3.6	PQL	ug/Kg	R	S
DALAPON	4.4	U	4.4	MDL	9.1	PQL	ug/Kg	R	S
DICAMBA	0.64	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z, S
DICHLOROPROP	0.81	U	0.81	MDL	1.7	PQL	ug/Kg	R	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-220-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	77	U	77	MDL	250	PQL	ug/Kg	R	S
MCPP	590		76	MDL	250	PQL	ug/Kg	UJ	B, S

Sample ID: SL-310-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	1.1	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	1.4	J	0.81	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA6-SB-1.5-2.5 *Collected:* 7/20/2011 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
BENZO(A)ANTHRACENE	75	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	99	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-097-SA6-SB-1.5-2.5 *Collected:* 7/20/2011 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
BENZO(K)FLUORANTHENE	68	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	78	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	71	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	84	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *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	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	330	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-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q, Q
BIS(2-ETHYLHEXYL)PHTHALATE	31	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-162-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	28	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	54	J	17	MDL	330	PQL	ug/Kg	J	Z
CHRYSENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	80	J	17	MDL	170	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-162-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 9:51:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	76	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	95	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***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-ETHYLHEXYL)PHTHALATE	110	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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
BENZO(A)ANTHRACENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	81	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	170	J	17	MDL	330	PQL	ug/Kg	J	Z
Butylbenzylphthalate	18	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	83	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	120	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***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	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	17	J	17	MDL	170	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-220-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:19:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	150	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	290	J	17	MDL	330	PQL	ug/Kg	J	Z
Butylbenzylphthalate	20	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	97	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	21	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z
PENTACHLOROPHENOL	410	J	170	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-310-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:51:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	100	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	28	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	37	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-321-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	79	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-322-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 10:52:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	340	PQL	ug/Kg	J	Z
FLUORANTHENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	43	J	17	MDL	170	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: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB-SA6-SB-072011 *Collected:* 7/20/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.27	J	0.054	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.18	J	0.054	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.22	J	0.054	MDL	1.1	PQL	ug/L	U	B
Di-n-octylphthalate	0.33	J	0.054	MDL	1.1	PQL	ug/L	U	B
NAPHTHALENE	0.046	J	0.033	MDL	0.054	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: DUP04-SA6-QC-072011 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.69	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	2.2		0.67	MDL	1.7	PQL	ug/Kg	J	FD
CHRYSENE	0.63	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.97	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.72	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, FD

Sample ID: SL-086-SA6-SB-4.0-5.0 *Collected:* 7/20/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.96	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.3	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.83	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA6-SB-1.5-2.5 *Collected:* 7/20/2011 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
ACENAPHTHYLENE	0.46	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.3	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.86	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.69	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.93	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.62	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.0	J	6.0	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 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(A)ANTHRACENE	0.83	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.87	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.92	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.98	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	FD
CHRYSENE	0.48	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.76	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	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: DE204 **Laboratory:** LL

EDD Filename: PrepDE204_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-164-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:57:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.79	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 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(B)FLUORANTHENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.68	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.76	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 8:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.49	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 1:39:00 ***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	1.7	MDL	8.4	PQL	ug/Kg	J	Z
ANTHRACENE	6.9	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

Sample ID: SL-218-SA6-SS-0.0-0.5 ***Collected:*** 7/20/2011 12:38:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.69	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
Dimethylphthalate	11	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.3	J	6.0	MDL	18	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: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-310-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 1:51:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.4	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	6.5	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.0	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.4	J	3.3	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	75	J	30	MDL	90	PQL	ug/Kg	J	Z

Sample ID: SL-321-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.93	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.73	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-322-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.76	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.92	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-156-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	160	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	190	J	100	MDL	510	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: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-159-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	160	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-162-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 9:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	220	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 10:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	160	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA6-SS-0.0-0.5 *Collected:* 7/20/2011 8:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Isopropanol	220	J	100	MDL	510	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-086-SA6-SB-4.0-5.0 *Collected:* 7/20/2011 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	15		0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA6-SB-1.5-2.5 *Collected:* 7/20/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.2	J	7.1	MDL	8.5	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	10		0.25	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	4.3	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: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE204

Method Blank Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWA20B261436	8/9/2011 2:36:00 PM	N-NITROSODIMETHYLAMINE	2.04 ng/L	EB-SA6-SB-072011

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072011(RES)	N-NITROSODIMETHYLAMINE	6.29 ng/L	6.29U ng/L

Method: **1625C**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC20B261338	8/9/2011 1:38:00 PM	N-NITROSODIMETHYLAMINE	168 ng/Kg	SL-097-SA6-SB-1.5-2.5 SL-215-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-097-SA6-SB-1.5-2.5(RES)	N-NITROSODIMETHYLAMINE	287 ng/Kg	349U ng/Kg
SL-215-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	317 ng/Kg	335U ng/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20848AB221837	7/28/2011 6:37:00 PM	BORON STRONTIUM Zirconium	0.0029 mg/L 0.00029 mg/L 0.0059 mg/L	EB-SA6-SB-072011

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072011(REA4)	BORON	0.0026 mg/L	0.0026U mg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20708FB220002	7/31/2011 12:02:00 AM	BORON	0.619 mg/Kg	DUP04-SA6-QC-072011
		CALCIUM	7.77 mg/Kg	SL-086-SA6-SB-4.0-5.0
		IRON	3.95 mg/Kg	SL-086-SA6-SB-9.0-10.0
		MAGNESIUM	0.951 mg/Kg	SL-097-SA6-SB-1.5-2.5
		MANGANESE	0.0396 mg/Kg	SL-156-SA6-SS-0.0-0.5
		PHOSPHORUS	1.25 mg/Kg	SL-157-SA6-SS-0.0-0.5
		STRONTIUM	0.0356 mg/Kg	SL-159-SA6-SS-0.0-0.5
		TIN	1.48 mg/Kg	SL-160-SA6-SS-0.0-0.5
		Zirconium	0.681 mg/Kg	SL-162-SA6-SS-0.0-0.5
				SL-164-SA6-SS-0.0-0.5
				SL-165-SA6-SS-0.0-0.5
				SL-167-SA6-SS-0.0-0.5
				SL-215-SA6-SS-0.0-0.5
				SL-218-SA6-SS-0.0-0.5
				SL-220-SA6-SS-0.0-0.5
				SL-310-SA6-SS-0.0-0.5
				SL-321-SA6-SS-0.0-0.5
				SL-322-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP04-SA6-QC-072011(RES)	BORON	2.34 mg/Kg	2.34U mg/Kg
DUP04-SA6-QC-072011(RES)	TIN	2.28 mg/Kg	2.28U mg/Kg
DUP04-SA6-QC-072011(RES)	Zirconium	2.43 mg/Kg	2.43U mg/Kg
SL-086-SA6-SB-4.0-5.0(RES)	BORON	1.49 mg/Kg	1.49U mg/Kg
SL-086-SA6-SB-4.0-5.0(RES)	TIN	2.26 mg/Kg	2.26U mg/Kg
SL-086-SA6-SB-4.0-5.0(RES)	Zirconium	1.83 mg/Kg	1.83U mg/Kg
SL-086-SA6-SB-9.0-10.0(RES)	BORON	1.37 mg/Kg	1.37U mg/Kg
SL-086-SA6-SB-9.0-10.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-086-SA6-SB-9.0-10.0(RES)	Zirconium	2.27 mg/Kg	2.27U mg/Kg
SL-097-SA6-SB-1.5-2.5(RES)	BORON	0.916 mg/Kg	0.916U mg/Kg
SL-097-SA6-SB-1.5-2.5(RES)	TIN	2.30 mg/Kg	2.30U mg/Kg
SL-156-SA6-SS-0.0-0.5(RES)	BORON	2.00 mg/Kg	2.00U mg/Kg
SL-156-SA6-SS-0.0-0.5(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-156-SA6-SS-0.0-0.5(RES)	Zirconium	3.16 mg/Kg	3.16U mg/Kg
SL-157-SA6-SS-0.0-0.5(RES)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-157-SA6-SS-0.0-0.5(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-157-SA6-SS-0.0-0.5(RES)	Zirconium	1.97 mg/Kg	1.97U mg/Kg
SL-159-SA6-SS-0.0-0.5(RES)	BORON	1.93 mg/Kg	1.93U mg/Kg
SL-159-SA6-SS-0.0-0.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-159-SA6-SS-0.0-0.5(RES)	Zirconium	1.95 mg/Kg	1.95U mg/Kg
SL-160-SA6-SS-0.0-0.5(REA2)	BORON	1.18 mg/Kg	1.18U mg/Kg
SL-160-SA6-SS-0.0-0.5(REA2)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-160-SA6-SS-0.0-0.5(RES)	Zirconium	2.61 mg/Kg	2.61U mg/Kg
SL-162-SA6-SS-0.0-0.5(RES)	BORON	1.03 mg/Kg	1.03U mg/Kg
SL-162-SA6-SS-0.0-0.5(RES)	TIN	4.50 mg/Kg	4.50U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **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-162-SA6-SS-0.0-0.5(RES)	Zirconium	2.54 mg/Kg	2.54U mg/Kg
SL-164-SA6-SS-0.0-0.5(RES)	BORON	2.03 mg/Kg	2.03U mg/Kg
SL-164-SA6-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-164-SA6-SS-0.0-0.5(RES)	Zirconium	1.99 mg/Kg	1.99U mg/Kg
SL-165-SA6-SS-0.0-0.5(RES)	BORON	1.33 mg/Kg	1.33U mg/Kg
SL-165-SA6-SS-0.0-0.5(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-165-SA6-SS-0.0-0.5(RES)	Zirconium	2.20 mg/Kg	2.20U mg/Kg
SL-167-SA6-SS-0.0-0.5(RES)	BORON	1.52 mg/Kg	1.52U mg/Kg
SL-167-SA6-SS-0.0-0.5(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-167-SA6-SS-0.0-0.5(RES)	Zirconium	1.94 mg/Kg	1.94U mg/Kg
SL-215-SA6-SS-0.0-0.5(RES)	BORON	2.82 mg/Kg	2.82U mg/Kg
SL-215-SA6-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-215-SA6-SS-0.0-0.5(RES)	Zirconium	3.02 mg/Kg	3.02U mg/Kg
SL-218-SA6-SS-0.0-0.5(RES)	BORON	1.27 mg/Kg	1.27U mg/Kg
SL-218-SA6-SS-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-218-SA6-SS-0.0-0.5(RES)	Zirconium	2.01 mg/Kg	2.01U mg/Kg
SL-220-SA6-SS-0.0-0.5(RES)	BORON	2.36 mg/Kg	2.36U mg/Kg
SL-220-SA6-SS-0.0-0.5(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-220-SA6-SS-0.0-0.5(RES)	Zirconium	1.90 mg/Kg	1.90U mg/Kg
SL-310-SA6-SS-0.0-0.5(RES)	BORON	2.28 mg/Kg	2.28U mg/Kg
SL-310-SA6-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-310-SA6-SS-0.0-0.5(RES)	Zirconium	2.78 mg/Kg	2.78U mg/Kg
SL-321-SA6-SS-0.0-0.5(RES)	BORON	1.98 mg/Kg	1.98U mg/Kg
SL-321-SA6-SS-0.0-0.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-321-SA6-SS-0.0-0.5(RES)	Zirconium	2.41 mg/Kg	2.41U mg/Kg
SL-322-SA6-SS-0.0-0.5(RES)	BORON	1.87 mg/Kg	1.87U mg/Kg
SL-322-SA6-SS-0.0-0.5(RES)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-322-SA6-SS-0.0-0.5(RES)	Zirconium	2.16 mg/Kg	2.16U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20726BB220535A	7/29/2011 5:35:00 AM	COPPER LEAD VANADIUM	0.268 mg/Kg 0.0211 mg/Kg 0.0277 mg/Kg	DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P13130AB241809A	8/3/2011 6:09:00 PM	MCPP	150 ug/Kg	DUP04-SA6-QC-072011 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5

The 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-160-SA6-SS-0.0-0.5(RES)	MCPP	740 ug/Kg	740U ug/Kg
SL-220-SA6-SS-0.0-0.5(RES)	MCPP	590 ug/Kg	590U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB25B211049A	7/26/2011 10:49:00 AM	METHYLENE CHLORIDE	1.7 ug/Kg	SL-086-SA6-SB-4.0-5.0 SL-097-SA6-SB-1.5-2.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_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-086-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	15 ug/Kg	15U ug/Kg
SL-097-SA6-SB-1.5-2.5(RES)	METHYLENE CHLORIDE	10 ug/Kg	10U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC20B260551	7/30/2011 5:51:00 AM	Di-n-butylphthalate Di-n-octylphthalate	0.14 ug/L 0.28 ug/L	EB-SA6-SB-072011

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072011(RES)	Di-n-butylphthalate	0.22 ug/L	1.1U ug/L
EB-SA6-SB-072011(RES)	Di-n-octylphthalate	0.33 ug/L	1.1U ug/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-072011(REA4)	7/20/2011 12:00:00 PM	BORON	0.0026 mg/L	DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5

The 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-097-SA6-SB-1.5-2.5(RES)	BORON	0.916 mg/Kg	0.916U mg/Kg
SL-160-SA6-SS-0.0-0.5(REA2)	BORON	1.18 mg/Kg	1.18U mg/Kg
SL-162-SA6-SS-0.0-0.5(RES)	BORON	1.03 mg/Kg	1.03U mg/Kg
SL-165-SA6-SS-0.0-0.5(RES)	BORON	1.33 mg/Kg	1.33U mg/Kg
SL-218-SA6-SS-0.0-0.5(RES)	BORON	1.27 mg/Kg	1.27U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: DE204_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-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	15 47 62	12 46 61	63.00-107.00 63.00-107.00 63.00-107.00	21 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	DICAMBA MCPP	- -33	0 -15	10.00-190.00 10.00-184.00	200 (50.00) -	DICAMBA MCPP	J(all detects) R(all non-detects)
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	DINOSEB	8	8	10.00-46.00	-	DINOSEB	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-160-SA6-SS-0.0-0.5MS (SL-160-SA6-SS-0.0-0.5)	EFH (C15-C20)	143	-	49.00-123.00	-	EFH (C15-C20)	J(all detects)
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	-30 -412	- -292	49.00-123.00 49.00-123.00	21 (20.00) -	EFH (C21-C30) EFH (C30-C40)	No qual, >4x
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	EFH (C8-C11)	21	43	49.00-123.00	-	EFH (C8-C11)	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_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-160-SA6-SS-0.0-0.5MS **SL-160-SA6-SS-0.0-0.5MSD** (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	463 177 201 296 198 252 359 301 196 220 392 468	425 185 195 301 199 259 358 315 197 235 384 449	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) V, Zn No qual, >4x
SL-160-SA6-SS-0.0-0.5MS **SL-160-SA6-SS-0.0-0.5MSD** (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	ANTIMONY	63	65	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-160-SA6-SS-0.0-0.5MS **SL-160-SA6-SS-0.0-0.5MSD** (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	SELENIUM	180	179	75.00-125.00	-	SELENIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_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-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	MOLYBDENUM	198	199	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	BARIUM	-185	-200	75.00-125.00	-	BARIUM	No qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_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-160-SA6-SS-0.0-0.5MS **SL-160-SA6-SS-0.0-0.5MSD** (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	ALUMINUM CALCIUM TITANIUM	1047 - 231	1393 263 263	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No qual, >4x
SL-160-SA6-SS-0.0-0.5MS **SL-160-SA6-SS-0.0-0.5MSD** (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	IRON MAGNESIUM	-1128 -87	-1140 -43	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No qual, >4x
SL-160-SA6-SS-0.0-0.5MS **SL-160-SA6-SS-0.0-0.5MSD** (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	MANGANESE PHOSPHORUS	- 69	45 -	75.00-125.00 75.00-125.00	- -	MANGANESE PHOSPHORUS	No qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-160-SA6-SS-0.0-0.5MS (SL-156-SA6-SS-0.0-0.5 SL -157-SA6-SS-0.0-0.5 SL -159-SA6-SS-0.0-0.5 SL -160-SA6-SS-0.0-0.5 SL -162-SA6-SS-0.0-0.5 SL -164-SA6-SS-0.0-0.5 SL -165-SA6-SS-0.0-0.5 SL -167-SA6-SS-0.0-0.5 SL -215-SA6-SS-0.0-0.5 SL -218-SA6-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	46 75	- -	80.00-120.00 80.00-120.00	- -	FLUORIDE Nitrate-NO3	J(all detects) UJ(all non-detects)
SL-220-SA6-SS-0.0-0.5MS (DUP04-SA6-QC-072011 SL -086-SA6-SB-4.0-5.0 SL -086-SA6-SB-9.0-10.0 SL -097-SA6-SB-1.5-2.5 SL -220-SA6-SS-0.0-0.5 SL -310-SA6-SS-0.0-0.5 SL -321-SA6-SS-0.0-0.5 SL -322-SA6-SS-0.0-0.5)	FLUORIDE	41	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	2-METHYLPHENOL 4-CHLOROANILINE ACENAPHTHYLENE BIS(2-CHLOROETHOXY)METHA Di-n-octylphthalate	113 - - - 132	120 - 112 107 137	75.00-111.00 23.00-95.00 81.00-110.00 75.00-104.00 56.00-126.00	- 60 (30.00) - - -	2-METHYLPHENOL 4-CHLOROANILINE ACENAPHTHYLENE BIS(2-CHLOROETHOXY)METH Di-n-octylphthalate	J(all detects)
SL-160-SA6-SS-0.0-0.5MS SL-160-SA6-SS-0.0-0.5MSD (SL-160-SA6-SS-0.0-0.5)	BENZIDINE	0	16	35.00-141.00	200 (30.00)	BENZIDINE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: DE204_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-160-SA6-SS-0.0-0.5DUP	ANTIMONY	43	20.00	
(DUP04 -SA6-QC-072011	ARSENIC	60	20.00	
SL -086-SA6-SB-4.0-5.0	BARIUM	27	20.00	
SL -086-SA6-SB-9.0-10.0	BERYLLIUM	26	20.00	
SL -097-SA6-SB-1.5-2.5	CADMIUM	62	20.00	J (all detects)
SL -156-SA6-SS-0.0-0.5	CHROMIUM	39	20.00	UJ (all non-detects)
SL -157-SA6-SS-0.0-0.5	COBALT	59	20.00	
SL -159-SA6-SS-0.0-0.5	COPPER	27	20.00	
SL -160-SA6-SS-0.0-0.5	LEAD	44	20.00	
SL -162-SA6-SS-0.0-0.5	MOLYBDENUM	53	20.00	Sb, Cd, Se, Ag, Tl
SL -164-SA6-SS-0.0-0.5	NICKEL	46	20.00	No Qual,
SL -165-SA6-SS-0.0-0.5	SELENIUM	52	20.00	OK by Difference
SL -167-SA6-SS-0.0-0.5	SILVER	70	20.00	
SL -215-SA6-SS-0.0-0.5	THALLIUM	35	20.00	
SL -218-SA6-SS-0.0-0.5	VANADIUM	40	20.00	
SL -220-SA6-SS-0.0-0.5	ZINC	33	20.00	
SL -310-SA6-SS-0.0-0.5				
SL -321-SA6-SS-0.0-0.5				
SL -322-SA6-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-160-SA6-SS-0.0-0.5DUP	HEXAVALENT CHROMIUM	200	20.00	
(DUP04 -SA6-QC-072011				
SL -086-SA6-SB-4.0-5.0				
SL -086-SA6-SB-9.0-10.0				
SL -097-SA6-SB-1.5-2.5				
SL -156-SA6-SS-0.0-0.5				
SL -157-SA6-SS-0.0-0.5				
SL -159-SA6-SS-0.0-0.5				
SL -160-SA6-SS-0.0-0.5				
SL -162-SA6-SS-0.0-0.5				No Qual,
SL -164-SA6-SS-0.0-0.5				OK by Difference
SL -165-SA6-SS-0.0-0.5				
SL -167-SA6-SS-0.0-0.5				
SL -215-SA6-SS-0.0-0.5				
SL -218-SA6-SS-0.0-0.5				
SL -220-SA6-SS-0.0-0.5				
SL -310-SA6-SS-0.0-0.5				
SL -321-SA6-SS-0.0-0.5				
SL -322-SA6-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-220-SA6-SS-0.0-0.5DUP (DUP04-SA6-QC-072011 SL -086-SA6-SB-4.0-5.0 SL -086-SA6-SB-9.0-10.0 SL -097-SA6-SB-1.5-2.5 SL -220-SA6-SS-0.0-0.5 SL -310-SA6-SS-0.0-0.5 SL -321-SA6-SS-0.0-0.5 SL -322-SA6-SS-0.0-0.5)	Nitrate-NO3	200	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12021AY321245A (EB-SA6-SB-072011)	ETHYLENE GLYCOL	-	-	80.00-124.00	26 (20.00)	ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12076AQ241839A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
P12076AY241921A (EB-SA6-SB-072011)	PETN	129	129	80.00-120.00	-	PETN	J(all detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12130AQ241836A (DUP04-SA6-QC-072011 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	DINOSEB	4	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20726BQ220538A (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	ANTIMONY	58	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20708FQ220006 (DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5)	ALUMINUM IRON TITANIUM	140 122 163	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_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
P1LCLCSQ261352 (DUP04 -SA6-QC-072011 SL -086-SA6-SB-4.0-5.0 SL -086-SA6-SB-9.0-10.0 SL -097-SA6-SB-1.5-2.5 SL -156-SA6-SS-0.0-0.5 SL -157-SA6-SS-0.0-0.5 SL -159-SA6-SS-0.0-0.5 SL -160-SA6-SS-0.0-0.5 SL -162-SA6-SS-0.0-0.5 SL -164-SA6-SS-0.0-0.5 SL -165-SA6-SS-0.0-0.5 SL -167-SA6-SS-0.0-0.5 SL -215-SA6-SS-0.0-0.5 SL -218-SA6-SS-0.0-0.5 SL -220-SA6-SS-0.0-0.5 SL -310-SA6-SS-0.0-0.5 SL -321-SA6-SS-0.0-0.5 SL -322-SA6-SS-0.0-0.5)	BIS(2-CHLOROISOPROPYL) ET N-NITROSODIMETHYLAMINE	117 110	- -	62.00-115.00 60.00-106.00	- -	BIS(2-CHLOROISOPROPYL) E N-NITROSODIMETHYLAMINE	J(all detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB25Q211111A LCSB25Y211134A (SL-086-SA6-SB-4.0-5.0 SL -097-SA6-SB-1.5-2.5)	1,1,2-TRICHLORO-1,2,2-TRIFLU 1,1-DICHLOROETHENE	140 124	134 124	61.00-126.00 73.00-123.00	- -	1,1,2-TRICHLORO-1,2,2-TRIFL 1,1-DICHLOROETHENE	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
MOISTURE	1.7	1.9	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
FLUORIDE	2.9	2.0	37	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
ALUMINUM	17600	16800	5	50.00	
CALCIUM	3050	2930	4	50.00	
IRON	25400	23100	9	50.00	
LITHIUM	30.9	28.1	9	50.00	
MAGNESIUM	6230	5630	10	50.00	
MANGANESE	313	292	7	50.00	
PHOSPHORUS	452	416	8	50.00	No Qualifiers Applied
POTASSIUM	3180	2730	15	50.00	
SODIUM	100	90.3	10	50.00	
STRONTIUM	18.1	17.5	3	50.00	
TIN	2.04	2.28	11	50.00	
TITANIUM	1140	1130	1	50.00	
Zirconium	2.61	2.43	7	50.00	
BORON	1.18	2.34	66	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
ANTIMONY	0.119	0.172	36	50.00	
ARSENIC	6.70	10.1	40	50.00	
BARIUM	128	160	22	50.00	
BERYLLIUM	0.965	1.07	10	50.00	
CHROMIUM	29.0	37.0	24	50.00	
COBALT	8.89	13.8	43	50.00	
COPPER	17.4	19.9	13	50.00	
LEAD	8.82	11.5	26	50.00	No Qualifiers Applied
MOLYBDENUM	0.690	0.976	34	50.00	
NICKEL	20.9	27.9	29	50.00	
SELENIUM	0.150	0.224	40	50.00	
THALLIUM	0.350	0.446	24	50.00	
VANADIUM	54.7	66.7	20	50.00	
ZINC	81.5	102	22	50.00	
CADMIUM	0.0784	0.147	61	50.00	J(all detects)
SILVER	0.0379	0.0872	79	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: PrepDE204_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
HEXAVALENT CHROMIUM	0.45	0.26	54	50.00	J(all detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
MERCURY	0.0084	0.0079	6	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
EFH (C15-C20)	1.1	1.3	17	50.00	No Qualifiers Applied
EFH (C21-C30)	12	9.4	24	50.00	
EFH (C30-C40)	37	27	31	50.00	
EFH (C8-C11)	1.2	1.2	0	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
4,4'-DDT	0.35 U	0.095	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
AROCLOR 1254	1.7	1.7 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-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
MCPA	540	350	43	50.00	No Qualifiers Applied
2,4-DB	1.8	1.7 U	200	50.00	J(all detects)
MCPP	740	250 U	200	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE204 Laboratory: LL

EDD Filename: PrepDE204_v2 eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
CHRYSENE	0.48	0.63	27	50.00	No Qualifiers Applied
FLUORANTHENE	0.76	0.97	24	50.00	
BENZO(B)FLUORANTHENE	1.7 U	0.69	200	50.00	J(all detects) UJ(all non-detects)
BENZO(K)FLUORANTHENE	1.7 U	2.2	200	50.00	
PHENANTHRENE	1.7 U	0.72	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
BIS(2-ETHYLHEXYL)PHTHALATE	31	29	7	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
PH	6.91	6.70	3	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072011	BORON	J	0.0026	0.0500	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072011	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.18	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.22	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.33	1.1	PQL	ug/L	
	NAPHTHALENE	J	0.046	0.054	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA6-SB-1.5-2.5	N-NITROSODIMETHYLAMINE	J	287	349	PQL	ng/Kg	J (all detects)
SL-215-SA6-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	317	335	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA6-SB-1.5-2.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-215-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.4	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	BORON	J	2.34	4.95	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.3	99.0	PQL	mg/Kg	
	TIN	J	2.28	9.90	PQL	mg/Kg	
	Zirconium	J	2.43	4.95	PQL	mg/Kg	
SL-086-SA6-SB-4.0-5.0	BORON	J	1.49	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.26	10.4	PQL	mg/Kg	
	Zirconium	J	1.83	5.22	PQL	mg/Kg	
SL-086-SA6-SB-9.0-10.0	BORON	J	1.37	5.61	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	11.2	PQL	mg/Kg	
	Zirconium	J	2.27	5.61	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA6-SB-1.5-2.5	BORON	J	0.916	5.10	PQL	mg/Kg	J (all detects)
	TIN	J	2.30	10.2	PQL	mg/Kg	
	Zirconium	J	3.66	5.10	PQL	mg/Kg	
SL-156-SA6-SS-0.0-0.5	BORON	J	2.00	4.98	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	9.97	PQL	mg/Kg	
	Zirconium	J	3.16	4.98	PQL	mg/Kg	
SL-157-SA6-SS-0.0-0.5	BORON	J	1.79	5.02	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.0	PQL	mg/Kg	
	Zirconium	J	1.97	5.02	PQL	mg/Kg	
SL-159-SA6-SS-0.0-0.5	BORON	J	1.93	4.98	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.8	99.5	PQL	mg/Kg	
	TIN	J	2.45	9.95	PQL	mg/Kg	
	Zirconium	J	1.95	4.98	PQL	mg/Kg	
SL-160-SA6-SS-0.0-0.5	BORON	J	1.18	10.1	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	101	PQL	mg/Kg	
	TIN	J	2.04	20.1	PQL	mg/Kg	
	Zirconium	J	2.61	5.04	PQL	mg/Kg	
SL-162-SA6-SS-0.0-0.5	BORON	J	1.03	4.81	PQL	mg/Kg	J (all detects)
	TIN	J	4.50	9.62	PQL	mg/Kg	
	Zirconium	J	2.54	4.81	PQL	mg/Kg	
SL-164-SA6-SS-0.0-0.5	BORON	J	2.03	5.06	PQL	mg/Kg	J (all detects)
	TIN	J	2.36	10.1	PQL	mg/Kg	
	Zirconium	J	1.99	5.06	PQL	mg/Kg	
SL-165-SA6-SS-0.0-0.5	BORON	J	1.33	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	92.4	98.5	PQL	mg/Kg	
	TIN	J	2.53	9.85	PQL	mg/Kg	
	Zirconium	J	2.20	4.92	PQL	mg/Kg	
SL-167-SA6-SS-0.0-0.5	BORON	J	1.52	5.03	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.1	PQL	mg/Kg	
	Zirconium	J	1.94	5.03	PQL	mg/Kg	
SL-215-SA6-SS-0.0-0.5	BORON	J	2.82	4.83	PQL	mg/Kg	J (all detects)
	TIN	J	2.40	9.66	PQL	mg/Kg	
	Zirconium	J	3.02	4.83	PQL	mg/Kg	
SL-218-SA6-SS-0.0-0.5	BORON	J	1.27	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.6	98.4	PQL	mg/Kg	
	TIN	J	2.57	9.84	PQL	mg/Kg	
	Zirconium	J	2.01	4.92	PQL	mg/Kg	
SL-220-SA6-SS-0.0-0.5	BORON	J	2.36	4.91	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.8	98.2	PQL	mg/Kg	
	TIN	J	2.81	9.82	PQL	mg/Kg	
	Zirconium	J	1.90	4.91	PQL	mg/Kg	
SL-310-SA6-SS-0.0-0.5	BORON	J	2.28	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.4	101	PQL	mg/Kg	
	TIN	J	2.40	10.1	PQL	mg/Kg	
	Zirconium	J	2.78	5.05	PQL	mg/Kg	
SL-321-SA6-SS-0.0-0.5	BORON	J	1.98	4.89	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	9.77	PQL	mg/Kg	
	Zirconium	J	2.41	4.89	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-322-SA6-SS-0.0-0.5	BORON	J	1.87	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	94.0	99.2	PQL	mg/Kg	
	TIN	J	2.56	9.92	PQL	mg/Kg	
	Zirconium	J	2.16	4.96	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	ANTIMONY	J	0.172	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.224	0.408	PQL	mg/Kg	
	SILVER	J	0.0872	0.102	PQL	mg/Kg	
SL-086-SA6-SB-4.0-5.0	ANTIMONY	J	0.163	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.316	0.418	PQL	mg/Kg	
	SILVER	J	0.0768	0.104	PQL	mg/Kg	
SL-086-SA6-SB-9.0-10.0	ANTIMONY	J	0.0884	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.152	0.431	PQL	mg/Kg	
	SILVER	J	0.0443	0.108	PQL	mg/Kg	
SL-097-SA6-SB-1.5-2.5	ANTIMONY	J	0.136	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.412	PQL	mg/Kg	
	SILVER	J	0.0783	0.103	PQL	mg/Kg	
SL-156-SA6-SS-0.0-0.5	ANTIMONY	J	0.104	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.211	0.403	PQL	mg/Kg	
SL-157-SA6-SS-0.0-0.5	SELENIUM	J	0.126	0.390	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0578	0.0974	PQL	mg/Kg	
SL-159-SA6-SS-0.0-0.5	ANTIMONY	J	0.143	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.255	0.406	PQL	mg/Kg	
	SILVER	J	0.0960	0.102	PQL	mg/Kg	
SL-160-SA6-SS-0.0-0.5	ANTIMONY	J	0.119	0.201	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0784	0.101	PQL	mg/Kg	
	SELENIUM	J	0.150	0.403	PQL	mg/Kg	
	SILVER	J	0.0379	0.101	PQL	mg/Kg	
SL-162-SA6-SS-0.0-0.5	ANTIMONY	J	0.101	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.400	PQL	mg/Kg	
	SILVER	J	0.0683	0.100	PQL	mg/Kg	
SL-164-SA6-SS-0.0-0.5	ANTIMONY	J	0.175	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.254	0.397	PQL	mg/Kg	
SL-165-SA6-SS-0.0-0.5	ANTIMONY	J	0.173	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.293	0.402	PQL	mg/Kg	
SL-167-SA6-SS-0.0-0.5	ANTIMONY	J	0.151	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.257	0.391	PQL	mg/Kg	
	SILVER	J	0.0756	0.0977	PQL	mg/Kg	
SL-218-SA6-SS-0.0-0.5	ANTIMONY	J	0.198	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.194	0.401	PQL	mg/Kg	
SL-220-SA6-SS-0.0-0.5	SELENIUM	J	0.316	0.389	PQL	mg/Kg	J (all detects)
SL-310-SA6-SS-0.0-0.5	ANTIMONY	J	0.0792	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.111	0.389	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-321-SA6-SS-0.0-0.5	ANTIMONY	J	0.141	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.184	0.395	PQL	mg/Kg	
	SILVER	J	0.0770	0.0987	PQL	mg/Kg	
SL-322-SA6-SS-0.0-0.5	ANTIMONY	J	0.145	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.215	0.389	PQL	mg/Kg	
	SILVER	J	0.0899	0.0973	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	HEXAVALENT CHROMIUM	J	0.26	1.0	PQL	mg/Kg	J (all detects)
SL-156-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)
SL-159-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.31	1.0	PQL	mg/Kg	J (all detects)
SL-160-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.45	1.0	PQL	mg/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-165-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.29	1.0	PQL	mg/Kg	J (all detects)
SL-310-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.80	1.0	PQL	mg/Kg	J (all detects)
SL-321-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.0	PQL	mg/Kg	J (all detects)
SL-322-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.30	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	MERCURY	J	0.0079	0.0950	PQL	mg/Kg	J (all detects)
SL-086-SA6-SB-4.0-5.0	MERCURY	J	0.0206	0.103	PQL	mg/Kg	J (all detects)
SL-156-SA6-SS-0.0-0.5	MERCURY	J	0.0106	0.0992	PQL	mg/Kg	J (all detects)
SL-157-SA6-SS-0.0-0.5	MERCURY	J	0.0074	0.0991	PQL	mg/Kg	J (all detects)
SL-159-SA6-SS-0.0-0.5	MERCURY	J	0.0087	0.0990	PQL	mg/Kg	J (all detects)
SL-160-SA6-SS-0.0-0.5	MERCURY	J	0.0084	0.101	PQL	mg/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	MERCURY	J	0.0074	0.0946	PQL	mg/Kg	J (all detects)
SL-164-SA6-SS-0.0-0.5	MERCURY	J	0.0094	0.0994	PQL	mg/Kg	J (all detects)
SL-165-SA6-SS-0.0-0.5	MERCURY	J	0.0111	0.101	PQL	mg/Kg	J (all detects)
SL-167-SA6-SS-0.0-0.5	MERCURY	J	0.0158	0.0946	PQL	mg/Kg	J (all detects)
SL-215-SA6-SS-0.0-0.5	MERCURY	J	0.0853	0.0994	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-218-SA6-SS-0.0-0.5	MERCURY	J	0.0105	0.100	PQL	mg/Kg	J (all detects)
SL-220-SA6-SS-0.0-0.5	MERCURY	J	0.0868	0.0994	PQL	mg/Kg	J (all detects)
SL-310-SA6-SS-0.0-0.5	MERCURY	J	0.0506	0.0980	PQL	mg/Kg	J (all detects)
SL-322-SA6-SS-0.0-0.5	MERCURY	J	0.0076	0.0994	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SS-0.0-0.5	Isopropanol	J	160	510	PQL	ug/Kg	J (all detects)
SL-157-SA6-SS-0.0-0.5	Isopropanol	J	190	510	PQL	ug/Kg	J (all detects)
SL-159-SA6-SS-0.0-0.5	Isopropanol	J	160	510	PQL	ug/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	Isopropanol	J	220	510	PQL	ug/Kg	J (all detects)
SL-165-SA6-SS-0.0-0.5	Isopropanol	J	160	510	PQL	ug/Kg	J (all detects)
SL-167-SA6-SS-0.0-0.5	Isopropanol	J	220	510	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SS-0.0-0.5	EFH (C15-C20)	J	2.5	6.1	PQL	mg/Kg	J (all detects)
SL-159-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-160-SA6-SS-0.0-0.5	EFH (C15-C20)	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.2	12	PQL	mg/Kg	J (all detects)
SL-164-SA6-SS-0.0-0.5	EFH (C15-C20) EFH (C8-C11)	J J	0.86 0.51	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-165-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.87	1.2	PQL	mg/Kg	J (all detects)
SL-167-SA6-SS-0.0-0.5	EFH (C15-C20)	J	3.8	6.1	PQL	mg/Kg	J (all detects)
SL-321-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.46	1.2	PQL	mg/Kg	J (all detects)
SL-322-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.57	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	4,4'-DDT	J	0.095	0.35	PQL	ug/Kg	J (all detects)
SL-157-SA6-SS-0.0-0.5	4,4'-DDT	J	0.25	0.34	PQL	ug/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	Chlordane gamma-BHC (Lindane)	J J	1.8 0.046	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-167-SA6-SS-0.0-0.5	MIREX	J	0.094	0.35	PQL	ug/Kg	J (all detects)
SL-215-SA6-SS-0.0-0.5	4,4'-DDD BETA-BHC	J J	0.65 0.16	1.7 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-220-SA6-SS-0.0-0.5	HEPTACHLOR	J	0.14	0.17	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SS-0.0-0.5	AROCLOR 1254	J	1.1	1.7	PQL	ug/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	Aroclor 5460	J	1.2	3.3	PQL	ug/Kg	J (all detects)
SL-164-SA6-SS-0.0-0.5	AROCLOR 1254	J	0.52	1.7	PQL	ug/Kg	J (all detects)
SL-220-SA6-SS-0.0-0.5	Aroclor 5460	J	130	170	PQL	ug/Kg	J (all detects)
SL-310-SA6-SS-0.0-0.5	AROCLOR 1260	J	26	34	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.082	0.17	PQL	ug/Kg	J (all detects)
SL-164-SA6-SS-0.0-0.5	2,4-DB	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-165-SA6-SS-0.0-0.5	DICHLOROPROP	J	1.0	1.7	PQL	ug/Kg	J (all detects)
SL-220-SA6-SS-0.0-0.5	DICAMBA	J	0.64	1.2	PQL	ug/Kg	J (all detects)
SL-310-SA6-SS-0.0-0.5	DICAMBA	J	1.1	1.2	PQL	ug/Kg	J (all detects)
SL-321-SA6-SS-0.0-0.5	DICHLOROPROP	J	1.4	1.7	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA6-SB-4.0-5.0	TOLUENE	J	0.14	4.5	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA6-SB-1.5-2.5	ACETONE	J	8.2	8.5	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.14	4.3	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	340	PQL	ug/Kg	J (all detects)
SL-097-SA6-SB-1.5-2.5	BENZO(A)ANTHRACENE	J	75	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	99	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	110	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	100	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	68	180	PQL	ug/Kg	
	CHRYSENE	J	78	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	27	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	71	180	PQL	ug/Kg	
	PYRENE	J	84	180	PQL	ug/Kg	
SL-156-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	340	PQL	ug/Kg	J (all detects)
SL-157-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	330	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	18	170	PQL	ug/Kg	
	PYRENE	J	23	170	PQL	ug/Kg	
SL-160-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	340	PQL	ug/Kg	J (all detects)
SL-162-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	35	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	35	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	36	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	28	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	22	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	54	330	PQL	ug/Kg	
	CHRYSENE	J	41	170	PQL	ug/Kg	
	FLUORANTHENE	J	80	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	22	170	PQL	ug/Kg	
	PHENANTHRENE	J	76	170	PQL	ug/Kg	
	PYRENE	J	95	170	PQL	ug/Kg	
SL-167-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	110	340	PQL	ug/Kg	J (all detects)
SL-215-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	31	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	44	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	81	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	47	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	33	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	170	330	PQL	ug/Kg	
	Butylbenzylphthalate	J	18	170	PQL	ug/Kg	
	CHRYSENE	J	83	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	30	170	PQL	ug/Kg	
	FLUORANTHENE	J	120	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	40	170	PQL	ug/Kg	
	PHENANTHRENE	J	94	170	PQL	ug/Kg	
	PYRENE	J	130	170	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-218-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	20	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	17	170	PQL	ug/Kg	
SL-220-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	150	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	290	330	PQL	ug/Kg	
	Butylbenzylphthalate	J	20	170	PQL	ug/Kg	
	CARBAZOLE	J	97	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	49	170	PQL	ug/Kg	
	DIBENZOFURAN	J	21	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	140	170	PQL	ug/Kg	
	PENTACHLOROPHENOL	J	410	500	PQL	ug/Kg	
SL-310-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	20	170	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	23	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	100	340	PQL	ug/Kg	
	CHRYSENE	J	28	170	PQL	ug/Kg	
	FLUORANTHENE	J	37	170	PQL	ug/Kg	
	PHENANTHRENE	J	21	170	PQL	ug/Kg	
	PYRENE	J	41	170	PQL	ug/Kg	
SL-321-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	23	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	79	340	PQL	ug/Kg	
SL-322-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	340	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	40	170	PQL	ug/Kg	
	PHENANTHRENE	J	24	170	PQL	ug/Kg	
	PYRENE	J	43	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	BENZO(B)FLUORANTHENE	J	0.69	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.63	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.97	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.72	1.7	PQL	ug/Kg	
SL-086-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	0.96	1.8	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.3	1.8	PQL	ug/Kg	
	PYRENE	J	0.83	1.8	PQL	ug/Kg	
SL-097-SA6-SB-1.5-2.5	ACENAPHTHYLENE	J	0.46	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	19	PQL	ug/Kg	
	FLUORENE	J	0.86	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
SL-156-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.69	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.93	1.7	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE204 **Laboratory: LL**

EDD Filename: DE204_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA6-SS-0.0-0.5	ANTHRACENE	J	0.62	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	6.0	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.4	1.7	PQL	ug/Kg	
SL-159-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.83	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.87	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.92	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.98	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.7	PQL	ug/Kg	
SL-160-SA6-SS-0.0-0.5	CHRYSENE	J	0.48	1.7	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	0.76	1.7	PQL	ug/Kg	
SL-164-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.79	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
	PYRENE	J	1.3	1.7	PQL	ug/Kg	
SL-165-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	0.68	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.76	1.7	PQL	ug/Kg	
	PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-167-SA6-SS-0.0-0.5	ANTHRACENE	J	0.49	1.7	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-215-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	1.9	8.4	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	6.9	8.4	PQL	ug/Kg	
SL-218-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.69	1.7	PQL	ug/Kg	J (all detects)
	Dimethylphthalate	J	11	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.3	18	PQL	ug/Kg	
SL-310-SA6-SS-0.0-0.5	ANTHRACENE	J	2.4	8.4	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	6.5	8.4	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.0	8.4	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.4	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	75	90	PQL	ug/Kg	
SL-321-SA6-SS-0.0-0.5	CHRYSENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	0.73	1.7	PQL	ug/Kg	
SL-322-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.76	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.92	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	

LDC #: 26407D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-24-11
SDG #: DE204 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	~~A~~ SW	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=19

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-156-SA6-SS-0.0-0.5	11	SL-220-SA6-SS-0.0-0.5	21	SL-160-SA6-SS-0.0-0.5MSD	31	
2	SL-157-SA6-SS-0.0-0.5	12	SL-310-SA6-SS-0.0-0.5	22	SL-160-SA6-SS-0.0-0.5DUP	32	
3	SL-159-SA6-SS-0.0-0.5	13	SL-321-SA6-SS-0.0-0.5	23		33	
4	SL-160-SA6-SS-0.0-0.5	14	SL-322-SA6-SS-0.0-0.5	24		34	
5	SL-162-SA6-SS-0.0-0.5	15	DUP04-SA6-QC-072011	25		35	
6	SL-164-SA6-SS-0.0-0.5	16	SL-086-SA6-SB-4.0-5.0	26		36	
7	SL-165-SA6-SS-0.0-0.5	17	SL-086-SA6-SB-9.0-10.0	27		37	
8	SL-167-SA6-SS-0.0-0.5	18	SL-097-SA6-SB-1.5-2.5	28		38	
9	SL-215-SA6-SS-0.0-0.5	19	EB-SA6-SB-072011	29		39	
10	SL-218-SA6-SS-0.0-0.5	20	SL-160-SA6-SS-0.0-0.5MS	30		40	

Notes: _____

LDC #: 26407D4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CF
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1, 4

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	4												
Zr	6.5	3.25	3.2	2.6												

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 9, 14-18

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	9	14	15	16	17	18								
Zr	9.2	4.6	3.0	2.2	2.4	1.8	2.3	3.7								

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All Soil

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	3	4	5	6	7	8	9	10	12	13	14	15	16	17	18
Sb	0.33	0.33	0.10	0.14	0.12	0.10	0.17	0.17	0.15	0.26	0.20	0.079	0.14	0.15	0.17	0.16	0.088	0.14

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 #: 26407D4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: OR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/20/11 Soil factor applied 100x
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification										
	19	Action Level	4	5	7	10	18					
B	2.6	1.3	1.2	1.0	1.3	1.3	0.92					

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".

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE204
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6351911BKG Matrix Spike Lab Sample ID: 6351912MS Matrix Spike Duplicate Lab Sample ID: 6351913MSD
% Solids for Sample: 98.3
Batch Id(s): P20708F, P20726B, P20711C

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		17602.4939		19650.1154		20300.8245		195.6335	193.7703	MG/KG	1047		1393		3			20	P
Antimony	121	0.1194	B	0.8848		0.8919		1.2208	1.1852	MG/KG	63	N	65	N	1		75 - 125	20	MS
Arsenic	75	6.7021		16.1302		15.0974		2.0346	1.9753	MG/KG	463	N	425	N	7		75 - 125	20	MS
Barium	137	127.8366		109.0031		108.0998		10.1729	9.8766	MG/KG	-185		-200		1			20	MS
Beryllium	9	0.9653		2.4090		2.4297		0.8138	0.7901	MG/KG	177	N	185	N	1		75 - 125	20	MS
Boron		1.1845	B	179.2198		178.4237		195.6335	193.7703	MG/KG	91		91		0		84 - 115	20	P
Cadmium	111	0.0784	B	2.1241		2.0089		1.0173	0.9877	MG/KG	201	N	195	N	6		75 - 125	20	MS
Calcium		3053.8773		3536.0885		4072.0835		391.2669	387.5406	MG/KG	123		263		14			20	P
Chromium	52	29.0483		59.1862		58.7858		10.1729	9.8766	MG/KG	296	N	301	N	1		75 - 125	20	MS
Cobalt	59	8.8938		109.6033		107.3196		50.8647	49.3832	MG/KG	198	N	199	N	2		75 - 125	20	MS
Copper	63	17.3645		43.0315		42.9634		10.1729	9.8766	MG/KG	252	N	259	N	0		75 - 125	20	MS
Iron		25418.6890		24315.0863		24314.3448		97.8167	96.8851	MG/KG	-1128		-1140		0			20	P
Lead	208	8.8172		19.7782		19.4353		3.0519	2.9630	MG/KG	359	N	358	N	2		75 - 125	20	MS
Lithium		30.8633		124.5246		125.3665		97.8167	96.8851	MG/KG	96		98		1		82 - 114	20	P
Magnesium		6231.9833		6062.7025		6148.0172		195.6335	193.7703	MG/KG	-87		-43		1			20	P
Manganese		312.9619		357.1005		334.7847		48.9084	48.4426	MG/KG	90		45		6			20	P
Mercury		0.0084	B	0.1765		0.1840		0.1576	0.1688	MG/KG	107		104		4		65 - 135	20	CV
Molybdenum	98	0.6895		20.7935		20.3261		10.1729	9.8766	MG/KG	198	N	199	N	2		75 - 125	20	MS
Nickel	60	20.9099		51.4954		52.0499		10.1729	9.8766	MG/KG	301	N	315	N	1		75 - 125	20	MS
Phosphorus		451.9042		519.8235		529.0336		97.8167	96.8851	MG/KG	69		80		2			20	P
Potassium		3182.2044		4143.0550		4229.6333		978.1673	968.8514	MG/KG	98		108		2		75 - 125	20	P
Selenium	78	0.1499	B	3.8067		3.6919		2.0346	1.9753	MG/KG	180	N	179	N	3		75 - 125	20	MS
Silver	107	0.0379	B	19.9613		19.4570		10.1729	9.8766	MG/KG	196	N	197	N	3		75 - 125	20	MS
Sodium		100.0786	B	1031.5821		1030.7087		978.1673	968.8514	MG/KG	95		96		0		75 - 125	20	P
Strontium		18.1098		111.2538		111.5661		97.8167	96.8851	MG/KG	95		96		0		75 - 115	20	P
Thallium	203	0.3503		1.2450		1.2774		0.4069	0.3951	MG/KG	220	N	235	N	3		75 - 125	20	MS
Tin		2.0406	B	334.2456		348.1529		391.2669	387.5406	MG/KG	85		89		4		80 - 110	20	P
Titanium		1143.8474		1369.5790		1398.6591		97.8167	96.8851	MG/KG	231		263		2			20	P
Vanadium	51	54.6519		94.5270		92.5639		10.1729	9.8766	MG/KG	392		384		2			20	MS
Zinc	66	81.4842		129.1353		125.8086		10.1729	9.8766	MG/KG	468		449		3			20	MS
Zirconium		2.6057	B	95.7997		96.0384		97.8167	96.8851	MG/KG	95		96		0		75 - 125	20	P

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

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

Lancaster Laboratories

< 5xRL

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE204
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6351911BKG
% Solids for Duplicate: 98.2
Batch ID(s): P20708F, P20726B, P20711C
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6351914DUP
% Solids for Sample: 98.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17602.4939		18548.6346		5		P
Antimony -	121		0.1194	B	0.1851	B	43		MS
Arsenic	75		6.7021		12.3866		60	*	MS
Barium	137		127.8366		96.9481		27	*	MS
Beryllium	9		0.9653		1.2509		26	*	MS
Boron			1.1845	B	1.0333	B	14		P
Cadmium -	111	0.1	0.0784	B	0.1490		62		MS
Calcium			3053.8773		3359.0230		10		P
Chromium	52		29.0483		43.2960		39	*	MS
Cobalt	59		8.8938		16.2523		59	*	MS
Copper	63		17.3645		22.8281		27	*	MS
Iron			25418.6890		26405.7567		4		P
Lead	208		8.8172		13.8637		44	*	MS
Lithium			30.8633		31.4673		2		P
Magnesium			6231.9833		6301.4920		1		P
Manganese			312.9619		300.2803		4		P
Mercury			0.0084	B	0.0077	B	9		CV
Molybdenum	98		0.6895		1.1915		53	*	MS
Nickel	60		20.9099		33.3062		46	*	MS
Phosphorus			451.9042		461.3209		2		P
Potassium			3182.2044		2955.8275		7		P
Selenium -	78		0.1499	B	0.2566	B	52		MS
Silver -	107		0.0379	B	0.0790	B	70		MS
Sodium		100.7	100.0786	B	106.3142		6		P
Strontium			18.1098		20.5174		12		P
Thallium -	203	0.1	0.3503		0.4968		35	*	MS
Tin			2.0406	B	2.1842	B	7		P
Titanium			1143.8474		1175.0244		3		P
Vanadium	51		54.6519		81.8718		40	*	MS
Zinc	66		81.4842		113.2452		33	*	MS
Zirconium			2.6057	B	3.0299	B	15		P

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

DE204 7526

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.: DE204
Matrix: SOIL Level (low/med): LOW

3/55

Background Lab Sample ID: 6351911BKG Serial Dilution Lab Sample ID: 6351911L
Batch ID(s): P20708F, P20726B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		87381.4200		80184.7500		8		P
Antimony	121	0.5929	B	1.8500	U	100		MS
Arsenic	75	33.2700		29.8400		10		MS
Barium	137	634.6000		551.5000		13	E	MS
Beryllium	9	4.7920		4.6425		3		MS
Boron		5.8800	B	18.0000	U	100		P
Cadmium	111	0.3891	B	1.1000	U	100		MS
Calcium		30319.8100		31367.1500		3		P
Chromium	52	144.2000		146.5500		2		MS
Cobalt	59	44.1500		39.5300		10		MS
Copper	63	86.2000		80.0000		7		MS
Iron		252364.3700		251262.3000		0		P
Lead	208	43.7700		41.8850		4		MS
Lithium		306.4200		305.0000		0		P
Magnesium		61873.0000		63059.7500		2		P
Manganese		3107.1800		3240.5500		4		P
Molybdenum	98	3.4230		3.0600		11		MS
Nickel	60	103.8000		91.4000		12	E	MS
Phosphorus		2243.3200		2227.8000		1		P
Potassium		15796.9400		15984.8500		1		P
Selenium	78	0.7442	B	1.4500	U	100		MS
Silver	107	0.1883	B	0.3550	U	100		MS
Sodium		993.6100	B	797.8500	B	20		P
Strontium		179.8000		183.9000		2		P
Thallium	203	1.7390		1.8470	B	6		MS
Tin		10.1300	B	16.0000	U	100		P
Titanium		5678.2300		5777.5500		2		P
Vanadium	51	271.3000		273.4000		1		MS
Zinc	66	404.5000		377.1000		7		MS
Zirconium		25.8700	B	58.8000	B	127		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

DE204 7528

SAMPLE DELIVERY GROUP

DE205

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3050B	6010B	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3050B	6020	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3550B	8081A	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3550B	8082	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3550B	8151A	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3550B	8270C	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	3550B	8270C SIM	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	Gen Prep	7199	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	METHOD	300.0	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	METHOD	314.0	IV
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6352975	N	METHOD	7471A	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3050B	6010B	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3050B	6020	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8015B	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8015M	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8081A	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8082	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8151A	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8270C	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	3550B	8270C SIM	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	Gen Prep	7199	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	METHOD	300.0	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	METHOD	314.0	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	METHOD	6850	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	METHOD	7471A	IV
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	METHOD	8015B	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
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6352977	N	METHOD	8015M	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3050B	6010B	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3050B	6020	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8015B	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8015M	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8081A	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8082	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8151A	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8270C	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	3550B	8270C SIM	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	Gen Prep	7199	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	METHOD	300.0	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	METHOD	314.0	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	METHOD	7471A	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	METHOD	8015B	IV
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6352976	N	METHOD	8015M	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3050B	6010B	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3050B	6020	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3550B	8081A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3550B	8082	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3550B	8151A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3550B	8270C	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	3550B	8270C SIM	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	Gen Prep	7199	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	METHOD	300.0	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	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
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	METHOD	6850	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6352971	N	METHOD	7471A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3050B	6010B	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3050B	6020	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3550B	8081A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3550B	8082	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3550B	8151A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3550B	8270C	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	3550B	8270C SIM	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	Gen Prep	7199	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	METHOD	300.0	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	METHOD	314.0	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	METHOD	6850	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6352972	MS	METHOD	7471A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3050B	6010B	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3050B	6020	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3550B	8081A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3550B	8082	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3550B	8151A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3550B	8270C	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	3550B	8270C SIM	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	METHOD	6850	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6352973	MSD	METHOD	7471A	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5DUP	6352974	DUP	3050B	6010B	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5DUP	6352974	DUP	3050B	6020	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5DUP	6352974	DUP	Gen Prep	7199	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
21-Jul-2011	SL-211-SA6-SS-0.0-0.5DUP	6352974	DUP	METHOD	300.0	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5DUP	6352974	DUP	METHOD	314.0	IV
21-Jul-2011	SL-211-SA6-SS-0.0-0.5DUP	6352974	DUP	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: DE205 **Laboratory:** LL

EDD Filename: PrepDE205_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.80	U	0.80	MDL	1.0	PQL	mg/Kg	UJ	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3810		11.1	MDL	49.1	PQL	mg/Kg	J	Q
SODIUM	80.0	J	5.84	MDL	98.2	PQL	mg/Kg	J	Z
TIN	2.95	J	0.314	MDL	9.82	PQL	mg/Kg	U	B
Zirconium	4.12	J	0.452	MDL	4.91	PQL	mg/Kg	J	Z

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2930		11.4	MDL	50.7	PQL	mg/Kg	J	Q
SODIUM	85.6	J	6.03	MDL	101	PQL	mg/Kg	J	Z
TIN	3.31	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.73	J	0.466	MDL	5.07	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE205 Laboratory: LL

EDD Filename: PrepDE205_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4370		11.1	MDL	49.0	PQL	mg/Kg	J	Q
SODIUM	72.4	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	3.31	J	0.313	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	3.60	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4140		11.4	MDL	50.6	PQL	mg/Kg	J	Q
SODIUM	57.3	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.84	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.19	J	0.465	MDL	5.06	PQL	mg/Kg	U	B, B

Method Category: METALS

Method: 6020 Matrix: SO

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.190	J	0.0586	MDL	0.404	PQL	mg/Kg	J	Z

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.750		0.0506	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0748	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	5.00		0.0809	MDL	0.404	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.770		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.761		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	27.0		0.121	MDL	0.404	PQL	mg/Kg	J	Q
COBALT	7.23		0.0202	MDL	0.101	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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	19.1		0.0809	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	40.2		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	21.7		0.101	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	1.19		0.0144	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.395		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	42.4		0.0222	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	188		0.0507	MDL	0.993	PQL	mg/Kg	J	E

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.173	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.07		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q, E

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.540		0.0735	MDL	0.199	PQL	mg/Kg	J	Q
ARSENIC	6.34		0.0795	MDL	0.397	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.762		0.0159	MDL	0.0993	PQL	mg/Kg	J	Q
CADMIUM	3.64		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	45.6		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	14.0		0.0199	MDL	0.0993	PQL	mg/Kg	J	Q
COPPER	54.4		0.0795	MDL	0.397	PQL	mg/Kg	J	Q
NICKEL	44.2		0.0993	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	3.49		0.0141	MDL	0.0993	PQL	mg/Kg	J	Q
THALLIUM	0.307		0.0298	MDL	0.0993	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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	47.1		0.0219	MDL	0.0993	PQL	mg/Kg	J	E

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.175	J	0.0585	MDL	0.404	PQL	mg/Kg	J	Z

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.917		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.178	J	0.0747	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	6.23		0.0807	MDL	0.404	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.789		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	1.59		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	30.7		0.121	MDL	0.404	PQL	mg/Kg	J	Q
COBALT	8.89		0.0202	MDL	0.101	PQL	mg/Kg	J	Q
COPPER	25.5		0.0807	MDL	0.404	PQL	mg/Kg	J	Q
LEAD	27.8		0.0103	MDL	0.202	PQL	mg/Kg	J	E
NICKEL	26.8		0.101	MDL	0.404	PQL	mg/Kg	J	Q
SILVER	0.536		0.0143	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.355		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	46.9		0.0222	MDL	0.101	PQL	mg/Kg	J	E

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0575	MDL	0.397	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: DE205 Laboratory: LL

EDD Filename: PrepDE205_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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	0.815		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q, E

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q
ARSENIC	5.18		0.0793	MDL	0.397	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.679		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.678		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q
CHROMIUM	25.0		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	7.56		0.0198	MDL	0.0991	PQL	mg/Kg	J	Q
COPPER	17.8		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	11.0		0.0101	MDL	0.198	PQL	mg/Kg	J	E
NICKEL	18.3		0.0991	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	0.153		0.0141	MDL	0.0991	PQL	mg/Kg	J	Q
THALLIUM	0.313		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	41.7		0.0218	MDL	0.0991	PQL	mg/Kg	J	E

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

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.94	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	2.0		0.20	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.83	J	0.20	MDL	1.0	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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0440	J	0.0068	MDL	0.0963	PQL	mg/Kg	J	Z

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0435	J	0.0067	MDL	0.0946	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 6850 **Matrix: SO**

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	2.6	J	2.1	MDL	5.1	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.67	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.88	J	0.40	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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	R	Q
4,4'-DDE	1.2		0.067	MDL	0.34	PQL	ug/Kg	J	Q, *XIII
Chlordane	3.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
DELTA-BHC	0.16	J	0.036	MDL	0.17	PQL	ug/Kg	J	Z, *XIII
DIELDRIN	1.6	U	1.6	MDL	1.6	PQL	ug/Kg	R	Q
ENDOSULFAN SULFATE	0.17	U	0.17	MDL	0.34	PQL	ug/Kg	R	Q
ENDRIN	0.49	U	0.49	MDL	0.49	PQL	ug/Kg	R	Q
ENDRIN ALDEHYDE	0.77		0.067	MDL	0.34	PQL	ug/Kg	J	Q, C, *XIII
gamma-BHC (Lindane)	0.056	U	0.056	MDL	0.17	PQL	ug/Kg	UJ	C
HEPTACHLOR EPOXIDE	0.28		0.034	MDL	0.17	PQL	ug/Kg	J	*XIII
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	33	J	16	MDL	69	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	5.9	U	5.9	MDL	6.9	PQL	ug/Kg	UJ	C

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* DL2-BASE/NEUTRAL *Dilution:* 250

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	110		17	MDL	86	PQL	ug/Kg	J	*XIII
4,4'-DDT	170		17	MDL	86	PQL	ug/Kg	J	C

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.66		0.036	MDL	0.17	PQL	ug/Kg	J	S
gamma-BHC (Lindane)	0.52	U	0.52	MDL	0.52	PQL	ug/Kg	UJ	C, *XIII
HEPTACHLOR	0.34		0.061	MDL	0.17	PQL	ug/Kg	J	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE205 Laboratory: LL

EDD Filename: PrepDE205_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *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'-DDE	9.8		0.67	MDL	3.4	PQL	ug/Kg	J	*XIII

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.25		0.036	MDL	0.17	PQL	ug/Kg	J	*XIII
ENDRIN ALDEHYDE	0.72		0.067	MDL	0.34	PQL	ug/Kg	J	C
gamma-BHC (Lindane)	0.23		0.034	MDL	0.17	PQL	ug/Kg	J	C
HEPTACHLOR	0.078	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, *XIII
HEPTACHLOR EPOXIDE	0.37		0.034	MDL	0.17	PQL	ug/Kg	J	*XIII
METHOXYCHLOR	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, C, *XIII

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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
4,4'-DDE	0.35		0.067	MDL	0.34	PQL	ug/Kg	J	S, *XIII
4,4'-DDT	1.8	U	1.8	MDL	1.8	PQL	ug/Kg	UJ	C
ENDOSULFAN II	0.22	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S, *XIII
ENDRIN ALDEHYDE	0.39		0.067	MDL	0.34	PQL	ug/Kg	J	S, C, *XIII
gamma-BHC (Lindane)	0.37		0.034	MDL	0.17	PQL	ug/Kg	J	S, C, *XIII
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C

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

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	42		1.7	MDL	8.6	PQL	ug/Kg	J	*XIII
Aroclor 5460	67		5.1	MDL	17	PQL	ug/Kg	J	C

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	45	J	20	MDL	86	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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	120	J	51	MDL	170	PQL	ug/Kg	J	Z, C

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	40		5.0	MDL	17	PQL	ug/Kg	J	C

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *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	14	J	3.3	MDL	17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.74		0.076	MDL	0.17	PQL	ug/Kg	J	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L
MCPA	77	U	77	MDL	250	PQL	ug/Kg	R	Q

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *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	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.99	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z, *IX
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPP	2000		76	MDL	250	PQL	ug/Kg	J	*IX

* 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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	1.6		0.40	MDL	1.2	PQL	ug/Kg	J	*IX
DINOSEB	0.80	U	0.80	MDL	2.4	PQL	ug/Kg	R	L
MCPA	1800		76	MDL	250	PQL	ug/Kg	J	*IX
MCPP	1500		75	MDL	250	PQL	ug/Kg	J	*IX

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
1,2-DICHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q
4-CHLOROPHENYL-PHENYLETHER	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZO(A)PYRENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	C
FLUORANTHENE	81	J	17	MDL	170	PQL	ug/Kg	J	Z, Q, Q
HEXACHLOROBENZENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
HEXACHLOROETHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
INDENO(1,2,3-CD)PYRENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
ISOPHORONE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
PHENANTHRENE	62	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	76	J	17	MDL	170	PQL	ug/Kg	J	Z, Q

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
ANTHRACENE	78	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	130	J	17	MDL	170	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: DE205 **Laboratory:** LL

EDD Filename: PrepDE205_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	99	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	110	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	C
CARBAZOLE	100	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	22	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-octylphthalate	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	98	J	17	MDL	170	PQL	ug/Kg	J	Z
PENTACHLOROPHENOL	410	J	170	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	500	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	140	J	17	MDL	340	PQL	ug/Kg	J	Z
Di-n-butylphthalate	23	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
PENTACHLOROPHENOL	190	J	170	MDL	500	PQL	ug/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	17	MDL	340	PQL	ug/Kg	J	Z
Di-n-butylphthalate	24	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-211-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 10:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.89	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	0.76	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.72	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	3.2		0.34	MDL	1.7	PQL	ug/Kg	J	Q
BENZO(A)ANTHRACENE	16		0.67	MDL	1.7	PQL	ug/Kg	J	Q
BENZO(K)FLUORANTHENE	15		0.67	MDL	1.7	PQL	ug/Kg	J	Q
CHRYSENE	40		0.34	MDL	1.7	PQL	ug/Kg	J	Q
DIBENZO(A,H)ANTHRACENE	1.8		0.67	MDL	1.7	PQL	ug/Kg	J	C
Di-n-butylphthalate	6.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
FLUORENE	0.83	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-214-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:07:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	68	J	30	MDL	91	PQL	ug/Kg	J	Z

Sample ID: SL-216-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 9:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.83	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.2	J	6.1	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	2.4		0.67	MDL	1.7	PQL	ug/Kg	J	C
FLUORENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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
ACENAPHTHENE	1.5	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.36	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.8		0.67	MDL	1.7	PQL	ug/Kg	J	C
FLUORENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.6		0.67	MDL	1.7	PQL	ug/Kg	J	C

* 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: DE205 Laboratory: LL

EDD Filename: PrepDE205_v2 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-219-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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
NAPHTHALENE	0.99	J	0.67	MDL	1.7	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: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*IX, 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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: PrepDE205_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE205

Method Blank Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory:** LL

EDD Filename: DE205_v2. **eQAPP Name:** CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20808CB221115	7/30/2011 11:15:00 AM	BORON	0.994 mg/Kg	SL-211-SA6-SS-0.0-0.5
		CALCIUM	11.0 mg/Kg	SL-214-SA6-SS-0.0-0.5
		IRON	4.84 mg/Kg	SL-216-SA6-SS-0.0-0.5
		MAGNESIUM	0.658 mg/Kg	SL-219-SA6-SS-0.0-0.5
		TIN	1.16 mg/Kg	
		Zirconium	0.676 mg/Kg	

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-211-SA6-SS-0.0-0.5(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-214-SA6-SS-0.0-0.5(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-216-SA6-SS-0.0-0.5(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-219-SA6-SS-0.0-0.5(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-219-SA6-SS-0.0-0.5(RES)	Zirconium	3.19 mg/Kg	3.19U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20826CB220348A	7/29/2011 3:48:00 AM	LEAD	0.0329 mg/Kg	SL-211-SA6-SS-0.0-0.5
		VANADIUM	0.0242 mg/Kg	SL-214-SA6-SS-0.0-0.5
				SL-216-SA6-SS-0.0-0.5
				SL-219-SA6-SS-0.0-0.5

Method: 8151A
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P13131AB240349A	8/4/2011 3:49:00 AM	2,4,5-T	0.082 ug/Kg	SL-211-SA6-SS-0.0-0.5
		MCPP	210 ug/Kg	SL-214-SA6-SS-0.0-0.5
				SL-216-SA6-SS-0.0-0.5
				SL-219-SA6-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE205 Laboratory: LL

EDD Filename: DE205_v2. 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-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	DINOSEB MCPA	0 0	7 -	10.00-46.00 10.00-213.00	200 (35.00) 200 (50.00)	DINOSEB MCPA	J (all detects) R (all non-detects)
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex)	19	22	24.00-141.00	-	2,4,5-TP (Silvex)	J(all detects) UJ(all non-detects)

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	PERCHLORATE	-	121	80.00-120.00	-	PERCHLORATE	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	AROCLOR 1260	-95	-92	39.00-149.00	-	AROCLOR 1260	No Qual, Diluted Out

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	4,4'-DDT	-	207	10.00-176.00	-	4,4'-DDT	No Qual, >4x
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	4,4'-DDD DIELDRIN ENDOSULFAN SULFATE ENDRIN	169 0 0 0	0 0 0 -	16.00-163.00 19.00-154.00 21.00-160.00 11.00-149.00	200 (50.00) - - 200 (50.00)	4,4'-DDD DIELDRIN ENDOSULFAN SULFATE ENDRIN	J(all detects) R(all non-detects)
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	4,4'-DDE ENDRIN ALDEHYDE	8 5	- 3	18.00-161.00 10.00-148.00	- -	4,4'-DDE ENDRIN ALDEHYDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_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-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	ARSENIC	188	201	75.00-125.00	-	ARSENIC	
	BERYLLIUM	149	156	75.00-125.00	-	BERYLLIUM	
	CADMIUM	156	140	75.00-125.00	-	CADMIUM	J(all detects)
	CHROMIUM	186	180	75.00-125.00	-	CHROMIUM	
	COBALT	135	144	75.00-125.00	-	COBALT	
	COPPER	178	169	75.00-125.00	-	COPPER	
	NICKEL	201	190	75.00-125.00	-	NICKEL	
	SILVER	138	144	75.00-125.00	-	SILVER	V, Zn, No Qual, >4x
	THALLIUM	136	167	75.00-125.00	-	THALLIUM	
	VANADIUM	239	225	75.00-125.00	-	VANADIUM	
	ZINC	459	259	75.00-125.00	-	ZINC	
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	LEAD	371	27	75.00-125.00	22 (20.00)	LEAD	J(all detects) UJ(all non-detects) No Qual, %R, >4x
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	ANTIMONY	33	44	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	MOLYBDENUM	132	140	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	BARIUM	-114	-193	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-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	ALUMINUM	2588	2606	75.00-125.00	-	ALUMINUM	
	CALCIUM	241	223	75.00-125.00	-	CALCIUM	
	IRON	3265	3618	75.00-125.00	-	IRON	J(all detects)
	MAGNESIUM	472	473	75.00-125.00	-	MAGNESIUM	
	MANGANESE	253	205	75.00-125.00	-	MANGANESE	
	PHOSPHORUS	155	163	75.00-125.00	-	PHOSPHORUS	Al, Ca, Fe, Mg, Mn, P, Ti, No Qual, >4x
	POTASSIUM	189	187	75.00-125.00	-	POTASSIUM	
	TITANIUM	356	369	75.00-125.00	-	TITANIUM	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	ANTHRACENE	-	117	73.00-115.00	-	ANTHRACENE	J(all detects) Bis(2-Ethylhexyl)phthalate, No Qual, >4x
	BENZO(A)ANTHRACENE	129	182	59.00-128.00	-	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	150	58.00-142.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	182	54.00-163.00	-	BENZO(B)FLUORANTHENE	
	BENZO(K)FLUORANTHENE	-	196	57.00-153.00	-	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	402	1115	39.00-167.00	61 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	CHRYSENE	148	234	67.00-123.00	-	CHRYSENE	
	FLUORANTHENE	238	404	51.00-149.00	32 (30.00)	FLUORANTHENE	
	PHENANTHRENE	172	268	62.00-122.00	32 (30.00)	PHENANTHRENE	
	PYRENE	243	430	51.00-131.00	36 (30.00)	PYRENE	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MS (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	FLUORIDE	40	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	4-CHLOROANILINE	-	-	13.00-107.00	62 (30.00)	4-CHLOROANILINE	J(all detects)
	ANILINE	-	-	18.00-116.00	50 (30.00)	ANILINE	
	BENZOIC ACID	-	-	10.00-173.00	36 (30.00)	BENZOIC ACID	
	BIS(2-ETHYLHEXYL)PHTHALAT	-	161	63.00-122.00	55 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	N-NITROSODIMETHYLAMINE	-	-	47.00-116.00	32 (30.00)	N-NITROSODIMETHYLAMINE	
	PYRENE	-	-	74.00-126.00	33 (30.00)	PYRENE	
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL	0	0	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) R(all non-detects)
	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	1,2,4-TRICHLOROBENZENE	68	-	72.00-115.00	-	1,2,4-TRICHLOROBENZENE	J(all detects) UJ(all non-detects)
	1,2-DICHLOROBENZENE	65	-	66.00-108.00	-	1,2-DICHLOROBENZENE	
	2-METHYLNAPHTHALENE	70	-	76.00-114.00	-	2-METHYLNAPHTHALENE	
	4-CHLOROPHENYL-PHENYLET	71	-	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	
	FLUORANTHENE	72	-	73.00-112.00	37 (30.00)	FLUORANTHENE	
	HEXACHLOROBENZENE	74	-	77.00-114.00	-	HEXACHLOROBENZENE	
	HEXACHLOROETHANE	53	-	57.00-109.00	31 (30.00)	HEXACHLOROETHANE	
	ISOPHORONE	72	-	73.00-102.00	-	ISOPHORONE	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-211-SA6-SS-0.0-0.5MS (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	49	-	75.00-125.00	-	HEXAVALENT CHROMIUM	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE205 Laboratory: LL

EDD Filename: DE205_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-211-SA6-SS-0.0-0.5DUP (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	Zirconium	31	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-211-SA6-SS-0.0-0.5DUP (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	ARSENIC MOLYBDENUM VANADIUM	29 22 23	20.00 20.00 20.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-211-SA6-SS-0.0-0.5DUP (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	MERCURY	30	20.00	No Qual OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **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
P12131AQ240512A (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	DINOSEB	6	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 7471A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20411CQ220946 (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	MERCURY	121	-	85.00-120.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20826CQ220351A (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	ANTIMONY	61	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20808CQ221119 (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	ALUMINUM TITANIUM	133 160	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_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*
P4LKLCSQ262310 (SL-211-SA6-SS-0.0-0.5 SL -214-SA6-SS-0.0-0.5 SL -216-SA6-SS-0.0-0.5 SL -219-SA6-SS-0.0-0.5)	BIS(2-CHLOROISOPROPYL) ET	119	-	62.00-115.00	-	BIS(2-CHLOROISOPROPYL) E	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8081A**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-214-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	694	20.00-120.00	All Target Analytes	J (all detects)
SL-219-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	160	20.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	SODIUM	J	80.0	98.2	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	9.82	PQL	mg/Kg	
	Zirconium	J	4.12	4.91	PQL	mg/Kg	
SL-214-SA6-SS-0.0-0.5	SODIUM	J	85.6	101	PQL	mg/Kg	J (all detects)
	TIN	J	3.31	10.1	PQL	mg/Kg	
	Zirconium	J	3.73	5.07	PQL	mg/Kg	
SL-216-SA6-SS-0.0-0.5	SODIUM	J	72.4	98.0	PQL	mg/Kg	J (all detects)
	TIN	J	3.31	9.80	PQL	mg/Kg	
	Zirconium	J	3.60	4.90	PQL	mg/Kg	
SL-219-SA6-SS-0.0-0.5	SODIUM	J	57.3	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.84	10.1	PQL	mg/Kg	
	Zirconium	J	3.19	5.06	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	ANTIMONY	J	0.170	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.190	0.404	PQL	mg/Kg	
SL-214-SA6-SS-0.0-0.5	SELENIUM	J	0.173	0.397	PQL	mg/Kg	J (all detects)
SL-216-SA6-SS-0.0-0.5	ANTIMONY	J	0.178	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.175	0.404	PQL	mg/Kg	
SL-219-SA6-SS-0.0-0.5	ANTIMONY	J	0.106	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.397	PQL	mg/Kg	

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-219-SA6-SS-0.0-0.5	PERCHLORATE	J	2.6	5.1	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.94	1.0	PQL	mg/Kg	J (all detects)
SL-216-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.83	1.0	PQL	mg/Kg	J (all detects)
SL-219-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	MERCURY	J	0.0440	0.0963	PQL	mg/Kg	J (all detects)
SL-216-SA6-SS-0.0-0.5	MERCURY	J	0.0435	0.0946	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-216-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-219-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.88	1.2	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	Chlordane DELTA-BHC	J J	3.1 0.16	3.4 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-214-SA6-SS-0.0-0.5	Chlordane	J	33	69	PQL	ug/Kg	J (all detects)
SL-216-SA6-SS-0.0-0.5	HEPTACHLOR METHOXYCHLOR	J J	0.078 0.38	0.17 1.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-219-SA6-SS-0.0-0.5	ENDOSULFAN II	J	0.22	0.34	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	45 120	86 170	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-219-SA6-SS-0.0-0.5	AROCLOR 1254	J	14	17	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-216-SA6-SS-0.0-0.5	DICAMBA	J	0.99	1.2	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE205 **Laboratory: LL**

EDD Filename: DE205_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	19	170	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	44	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	
	FLUORANTHENE	J	81	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	22	170	PQL	ug/Kg	
	PHENANTHRENE	J	62	170	PQL	ug/Kg	
	PYRENE	J	76	170	PQL	ug/Kg	
SL-214-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	32	170	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	78	170	PQL	ug/Kg	
	BENZO(A)PYRENE	J	130	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	99	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	110	170	PQL	ug/Kg	
	CARBAZOLE	J	100	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	30	170	PQL	ug/Kg	
	DIBENZOFURAN	J	22	170	PQL	ug/Kg	
	Di-n-octylphthalate	J	30	170	PQL	ug/Kg	
	FLUORENE	J	33	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	98	170	PQL	ug/Kg	
	PENTACHLOROPHENOL	J	410	510	PQL	ug/Kg	
SL-216-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	22	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	140	340	PQL	ug/Kg	
	Di-n-butylphthalate	J	23	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	17	170	PQL	ug/Kg	
	PENTACHLOROPHENOL	J	190	500	PQL	ug/Kg	
SL-219-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	340	PQL	ug/Kg	
	Di-n-butylphthalate	J	24	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-211-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	0.89	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.2	1.7	PQL	ug/Kg	
	ACENAPHTHENE	J	0.76	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.72	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.7	18	PQL	ug/Kg	
	FLUORENE	J	0.83	1.7	PQL	ug/Kg	
SL-214-SA6-SS-0.0-0.5	Butylbenzylphthalate	J	68	91	PQL	ug/Kg	J (all detects)
SL-216-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.4	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.83	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.2	18	PQL	ug/Kg	
	FLUORENE	J	1.3	1.7	PQL	ug/Kg	
SL-219-SA6-SS-0.0-0.5	ACENAPHTHENE	J	1.5	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.36	1.7	PQL	ug/Kg	
	FLUORENE	J	0.84	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.99	1.7	PQL	ug/Kg	

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 21, 2011

LDC Report Date: October 26, 2011

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 6 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Date	Standard	Compound	%D	Associated Samples	Flag	A or P
8/8/11	ICV	Benzoic acid	65.0	All samples in SDG DE205	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
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	1,2-Dichlorobenzene	65 (66-108)	-	-	J (all detects)	A
	Hexachloroethane	53 (57-109)	-	31 (≤30)	UJ (all non-detects)	
	Isophorone	72 (73-102)	-	-		
	1,2,4-Trichlorobenzene	68 (72-115)	-	-		
	4-Chlorophenyl-phenylether	71 (80-109)	-	-		
	Hexachlorobenzene	74 (77-114)	-	-		
	Fluoranthene	72 (73-112)	-	37 (≤30)		
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	N-Nitrosodimethylamine	-	-	32 (≤30)	J (all detects)	A
	Aniline	-	-	50 (≤30)	J (all detects)	
	Benzoic acid	-	-	36 (≤30)	J (all detects)	
	4-Chloroaniline	-	-	62 (≤30)	J (all detects)	
	Pyrene			33 (≤30)	J (all detects)	
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	2,4-Dinitrophenol	0 (20-143)	0 (20-143)	-	J (all detects)	A
				-	R (all non-detects)	
	Benzidine	0 (35-141)	0 (35-141)	-	J (all detects)	
					R (all non-detects	

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	Compound	LCS %R (Limits)	Associated Samples	Flag	A or P
214LKLCS	Bis(2-chloroisopropyl) ether	119 (62-115)	All samples in SDG DE205	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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Benzoic acid	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE205	SL-211-SA6-SS-0.0-0.5	1,2-Dichlorobenzene Isophorone 1,2,4-Trichlorobenzene 4-Chlorophenyl-phenylether Hexachlorobenzene	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5	Hexachloroethane Fluoranthene	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects	A	Matrix spike/Matrix spike duplicate (%R) (RPD) (Q)
DE205	SL-211-SA6-SS-0.0-0.5	N-Nitrosodimethylamine Aniline Benzoic acid 4-Chloroaniline Pyrene	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE205	SL-211-SA6-SS-0.0-0.5	2,4-Dinitrophenol Benzidine	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Bis(2-chloroisopropyl) ether	J (all detects)	P	Laboratory control samples (%R) (L)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E2a **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11
SDG #: DE205 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
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: 7/21/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	~~SW~~ A	%RSD ≤ 30, r²
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	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: SO/L

1	SL-211-SA6-SS-0.0-0.5	11	SBLKLK214	21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26407E2a

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer: C

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 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?	✓			
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 for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		✓		
VI. Surrogate %R				
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 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 #: 26407E2a

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?		✓		
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 from 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				
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 of Data				
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.			✓	

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 #: 26467E2a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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 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
	8/8/11	ICV	PPP	45		All	J/UJ/A (C)

LDC #: 26407E25

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
		5+6	all	following	pages	( )	#1	cont (Q) all
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: DE205
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

UNSPK: 6352971 MS: 6352972 MSD: 6352973 Analyte	Batch: 11214SLK026 (Sample number(s): 6352971-6352973, 6352975-6352977) Spike Added ug/kg	Unspiked Conc ug/kg	MS Conc ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits	
N-Nitrosodimethylamine 000	1666.67	N.D.	1074.82	1484.53	64	89	47-116	32 *	30	J/Adet
Phenol	1666.67	N.D.	1242.92	1617.46	75	97	58-126	26	30	
Aniline	1666.67	N.D.	497.91	828.83	30	50	18-116	50 *	30	J/Adet
bis(2-Chloroethyl)ether	1666.67	N.D.	1193.55	1555.81	72	93	60-116	26	30	
2-Chlorophenol	1666.67	N.D.	1241.23	1603.23	74	96	73-121	25	30	
1,3-Dichlorobenzene	1666.67	N.D.	1067.9	1430.72	64	86	63-109	29	30	
1,4-Dichlorobenzene	1666.67	N.D.	1088.17	1460.61	65	88	58-108	29	30	
Benzyl alcohol	1666.67	N.D.	1163.26	1514.75	70	91	67-115	26	30	
1,2-Dichlorobenzene	1666.67	N.D.	1086.5	1476.61	65 *	89	66-108	30	30	J/W/A
2-Methylphenol	1666.67	N.D.	1242.24	1586.71	75	95	75-111	24	30	
bis(2-Chloroisopropyl)ether	1666.67	N.D.	1406.5	1877.52	84	113	55-142	29	30	
4-Methylphenol	1666.67	N.D.	1118.12	1436.92	67	86	59-123	25	30	
N-Nitroso-di-n-propylamine	1666.67	N.D.	1127.04	1471.14	68	88	60-116	26	30	
Hexachloroethane	1666.67	N.D.	887.12	1218.23	53 *	73	57-109	31 *	30	J/W/A
Nitrobenzene	1666.67	N.D.	1186.54	1584.4	71	95	57-125	29	30	
Isophorone	1666.67	N.D.	1206.75	1589.34	72 *	95	73-102	27	30	J/W/
2-Nitrophenol	1666.67	N.D.	1100.48	1485.57	66	89	56-127	30	30	
2,4-Dimethylphenol	1666.67	N.D.	1161.11	1474.86	70	88	68-118	24	30	
Benzoic acid	1666.67	N.D.	446.09	308.54	27	19	10-173	36 *	30	J/A
3,5-Dimethylphenol	1666.67	N.D.	1256.94	1582.41	75	95	71-127	23	30	
bis(2-Chloroethoxy)methane	1666.67	N.D.	1259.9	1636.38	76	98	75-104	26	30	
~~Tetralin~~	~~1666.67~~	~~N.D.~~	~~1414.96~~	~~828.05~~	~~85~~	~~50 *~~	~~70-130~~	~~53 *~~	~~30~~	~~J/W/I~~
2,4-Dichlorophenol	1666.67	N.D.	1206.17	1547.48	72	93	66-123	25	30	
1,2,4-Trichlorobenzene	1666.67	N.D.	1135.91	1496.79	68 *	90	72-115	27	30	J/W/A
Naphthalene	1666.67	N.D.	1191.68	1595.39	72	96	72-116	29	30	
4-Chloroaniline	1666.67	N.D.	434.66	828.89	26	50	13-107	62 *	30	J/A
Hexachlorobutadiene	1666.67	N.D.	1077.76	1425.86	65	86	62-120	28	30	
4-Chloro-3-methylphenol	1666.67	N.D.	1138.48	1437.59	68	86	62-122	23	30	
~~2-Methylnaphthalene~~ X	~~1666.67~~	~~N.D.~~	~~1173.21~~	~~1545.36~~	~~70 *~~ X	~~93~~	~~76-114~~	~~27~~	~~30~~	~~J/W/A~~
1-Methylnaphthalene	1666.67	N.D.	1144.49	1496.23	69	90	64-122	27	30	
Hexachlorocyclopentadiene	3333.33	N.D.	750.33	927.76	23	28	10-153	21	30	
2,4,6-Trichlorophenol	1666.67	N.D.	1270.43	1599.01	76	96	56-134	23	30	
2,4,5-Trichlorophenol	1666.67	N.D.	1276.83	1553.14	77	93	58-129	20	30	
2-Chloronaphthalene	1666.67	N.D.	1228.1	1507.32	74	90	50-141	20	30	
2-Nitroaniline	1666.67	N.D.	1398.41	1734.62	84	104	67-125	21	30	
Dimethylphthalate	1666.67	N.D.	1302.9	1608.29	78	96	64-118	21	30	
2,6-Dinitrotoluene	1666.67	N.D.	1247.77	1559.9	75	94	69-123	22	30	
Acenaphthylene	1666.67	N.D.	1387.54	1751.85	83	105	81-110	23	30	
3-Nitroaniline	1666.67	N.D.	1258.92	1601.42	76	96	59-122	24	30	
Acenaphthene	1666.67	N.D.	1294.74	1623.06	78	97	75-115	23	30	
2,4-Dinitrophenol	3333.33	N.D.	N.D.	N.D.	0 *	0 *	20-143	0	30	J/R/A
4-Nitrophenol	1666.67	N.D.	1027.99	1239.11	62	74	37-129	19	30	

Results are being reported on an as received basis.

Lancaster Laboratories

Quality Control Summary
Matrix Spike/Matrix Spike Duplicate

SDG: DE205
Matrix: SOLID

GC/MS Semivolatiles

Fraction: Semivolatiles by GC/MS

UNSPK: 6352971 MS: 6352972 MSD: 6352973 Analyte	Batch: 11214SLK026 (Sample number(s): 6352971-6352973, 6352975-6352977) Spike Added ug/kg	Unspiked Conc ug/kg	MS Conc ug/kg	MSD Conc ug/kg	MS %Rec	MSD %Rec	%Rec Limits	%RPD	%RPD Limits
2,4-Dinitrotoluene	1666.67	N.D.	1149.33	1429.08	69	86	56-129	22	30
Dibenzofuran	1666.67	N.D.	1214.	1514.87	73	91	71-112	22	30
Diethylphthalate	1666.67	N.D.	1280.83	1580.97	77	95	66-118	21	30
Fluorene	1666.67	N.D.	1263.26	1597.65	76	96	63-121	23	30
4-Chlorophenyl-phenylether	1666.67	N.D.	1182.02	1452.39	71 *	87	80-109	21	30
4-Nitroaniline	1666.67	N.D.	1077.21	1376.98	65	83	41-109	24	30
4,6-Dinitro-2-methylphenol	1666.67	N.D.	342.18	381.87	21	23	11-126	11	30
N-Nitrosodiphenylamine	1666.67	N.D.	1509.97	1791.23	91	107	71-122	17	30
1,2-Diphenylhydrazine	1666.67	N.D.	1539.23	1907.66	92	114	71-129	21	30
4-Bromophenyl-phenylether	1666.67	N.D.	1251.54	1537.93	75	92	67-129	21	30
Hexachlorobenzene	1666.67	N.D.	1225.55	1515.24	74 *	91	77-114	21	30
Pentachlorophenol	1666.67	N.D.	1117.73	1087.21	67	65	28-127	3	30
Phenanthrene	1666.67	60.99	1371.26	1762.87	79	102	65-125	25	30
Anthracene	1666.67	N.D.	1389.6	1714.93	83	103	75-115	21	30
Carbazole	1666.67	N.D.	1324.44	1620.77	79	97	64-120	20	30
Di-n-butylphthalate	1666.67	N.D.	1423.6	1727.86	85	104	67-123	19	30
Fluoranthene	1666.67	80.33	1273.83	1860.9	72 *	107	73-112	37 *	30
Benzidine	8333.33	N.D.	N.D.	N.D.	0 *	0 *	35-141	0	30
Pyrene	1666.67	74.97	1423.	1980.9	81	114	74-126	33 *	30
Butylbenzylphthalate	1666.67	N.D.	1472.92	1778.09	88	107	73-134	19	30
~~bis(2-Ethylhexyl)phthalate~~	~~1666.67~~	~~67.79~~	~~1563.46~~	~~2751.33~~	~~90~~	~~107~~ *	~~63-122~~	~~55~~ *	~~30~~
3,3'-Dichlorobenzidine	1666.67	N.D.	820.6	1010.25	49	61	28-109	21	30
Benzo(a)anthracene	1666.67	N.D.	1285.99	1561.43	77	94	65-122	19	30
Chrysene	1666.67	39.32	1258.6	1620.98	73	95	62-128	25	30
Di-n-octylphthalate	1666.67	N.D.	1616.83	1976.84	97	119	56-126	20	30
Benzo(b)fluoranthene	1666.67	43.99	1297.37	1723.53	75	101	59-125	28	30
Benzo(k)fluoranthene	1666.67	N.D.	1476.69	1732.8	89	104	56-132	16	30
Benzo(a)pyrene	1666.67	18.45	1352.65	1662.78	80	99	57-126	21	30
Indeno(1,2,3-cd)pyrene	1666.67	21.34	1396.63	1687.61	83	100	61-126	19	30
Dibenz(a,h)anthracene	1666.67	N.D.	1420.73	1707.76	85	102	65-125	18	30
Benzo(g,h,i)perylene	1666.67	20.18	1381.74	1674.68	82	99	59-127	19	30

DE205 5964

Results are being reported on an as received basis.

LDC #: 26407E2q

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
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 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
		214LKLCS	~~BEE~~ MMM	119 (62-115)	( )	( )	All	J/Pdet (L)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC #: 26407E2a

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 (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/7/11	Phenol (1st internal standard)	2.140	2.140	2.088	2.088	4	4
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.387	0.387	0.394	0.394	2	2
			~~Fluorene~~ 3-Nitroaniline (3rd internal standard)	0.369	0.369	0.369	0.369	5	5
			~~Pentachlorophenol~~ Hexachlorobenzene (4th internal standard)	0.204	0.204	0.204	0.204	6	6
			~~Bis(2-ethylhexyl)phthalate~~ 3,3-Dichlorobenzidine (5th internal standard)	0.362	0.362	0.357	0.357	7	7
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.401	1.401	1.377	1.377	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 #: 26407E29

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
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	ccv	8/14/11	Phenol (1st internal standard)	2.088	2.233	2.233	7	7
	21:03		~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.394	0.399	0.399	1	1
			~~Fluorene~~ 2-Nitroaniline (3rd internal standard)	0.369	0.414	0.414	12	12
			~~Pentachlorophenol~~ Hexachlorobenzene (4th internal standard)	0.204	0.180	0.180	12	12
			~~Bis(2-ethylhexyl)phthalate~~ 3,3-Dichlorobenzidine (5th internal standard)	0.357	0.348	0.348	3	3
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.377	1.613	1.613	17	17
2	ccv	8/15/11	~~Phenol (1st internal standard)~~		2.205	2.205	6	6
	13:04		Naphthalene (2nd internal standard)		0.391	0.391	1	1
			Fluorene (3rd internal standard)		0.398	0.398	8	8
			Pentachlorophenol (4th internal standard)		0.178	0.178	13	13
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.368	0.368	3	3
			~~Benzo(a)pyrene (6th internal standard)~~		1.528	1.528	11	11
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 #:_____

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

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	80.771	81	81	0
2-Fluorobiphenyl	↓	90.390	90	90	
Terphenyl-d14	↓	78.283	78	78	
Phenol-d5	200	183.182	92	92	
2-Fluorophenol	↓	181.80	91	91	
2,4,6-Tribromophenol	↓	131.153	66	66	↓
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 #: 26467E2a

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
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 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: 5 + 6

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	1242.92	1617.46	75	75	97	97	26	26
N-Nitroso-di-n-propylamine	↓	↓	↓	1127.04	1471.14	68	68	88	88	26	26
4-Chloro-3-methylphenol	↓	↓	↓	1138.48	1437.59	68	68	86	86	23	23
Acenaphthene	↓	↓	↓	1294.74	1623.06	78	78	97	97	23	23
Pentachlorophenol	↓	↓	↓	1117.73	1087.21	67	67	65	65	3	3
Pyrene	↓	↓	74.97	1423	1980.9	81	81	114	114	33	33

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 #: 26407C09

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
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: 214LKLCS

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	1820.94	NA	109	109				
N-Nitroso-di-n-propylamine			1645.52		99	99				
4-Chloro-3-methylphenol			1590.7		95	95				
Acenaphthene			1631.73		98	98				
Pentachlorophenol			1258.73		76	76				
Pyrene			1719.2		103	103	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 #: 26407E2S

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. #1, 44:

Conc. = $\frac{(8789)(20)(1000)(\quad)(\quad)}{(87)(283)(1.103)(30)(0.99)(\quad)}$

= 62 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:	July 21, 2011
LDC Report Date:	October 26, 2011
Matrix:	Soil
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster laboratories
Sample Delivery Group (SDG):	DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 6 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Date	Standard	Compound	%D	Associated Samples	Flag	A or P
8/311	ICV	Indeno(1,2,3-cd)pyrene	29.0	SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD SBLKLK214	J (all detects) UJ (all non-detects)	A
8/311	ICV	Dibenzo(a,h)anthracene	28.0	SL-211-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD SBLKLK214	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
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	Anthracene	-	117 (73-115)	-	J (all detects)	A
	Benzo(a)anthracene	129 (59-128)	182 (59-128)	-	J (all detects)	
	Chrysene	148 (67-123)	234 (67-123)	-	J (all detects)	
	Benzo(k)fluoranthene	-	196 (57-153)	-	J (all detects)	

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-219-SA6-SS-0.0-0.5	Indeno(1,2,3-cd)pyrene	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE205	SL-211-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Dibenzo(a,h)anthracene	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE205	SL-211-SA6-SS-0.0-0.5	Anthracene Benzo(a)anthracene Chrysene Benzo(k)fluoranthene	J (all detects) J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All TCL compounds	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E2b **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11

SDG #: DE205 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: EF

2nd Reviewer: A

METHOD: GC/MS ~~Polynuclear Aromatic Hydrocarbons~~ SVOA (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: 7/21/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D ≤30
IV.	Continuing calibration/ICV	SW	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/RL/LOQ/LODs	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-211-SA6-SS-0.0-0.5	11	SBLKB213	21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26407E2b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

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 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?	✓			
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 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?	✓			

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?	✓			
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 from 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 of data				
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.			✓	

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 #: 26407E2h

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

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
	8/3/11	ICV	JJJ	29	→	SBLKLK214, 4, 5, 6	J/UJ/A (C)
			KKK	28	→	SBLKLK214, 1, 3→6	↓ ↓

CONCAL.2S

LDC #: 26407E2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
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
		5+6	YY	( )	117 (73-115)	( )	#	J/A det (Q)
			EEE	402 (39-167)	1115 (39-167)	61 (30)		no qual parent 7 & X
			CCC	129 (59-128)	182 (59-128)	( )		J/A det (Q)
			DDD	148 (67-123)	234 (67-123)	( )		
			HHH	( )	196 (57-153)	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	(

LDC #: 26407E3D

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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	8/3/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	0.998	0.998	1.044	1.044	5	5
			Fluorene (3rd internal standard)	1.212	1.212	1.284	1.284	6	6
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.038	1.038	1.091	1.091	6	6
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.076	1.076	1.139	1.139	5	5
			Benzo(a)pyrene (6th internal standard)	1.261	1.261	1.325	1.325	6	6
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 #: 26407E2b

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	IH0151	8/4/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.044	0.994	0.994	5	5
			Fluorene (3rd internal standard)	1.284	1.224	1.224	5	5
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.091	1.063	1.063	2	2
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.139	1.090	1.090	4	4
			Benzo(a)pyrene (6th internal standard)	1.325	1.286	1.286	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 #: 46402205

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: A

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	0.999	100	100	0
2-Fluorobiphenyl	↓	0.926	93	93	↓
Terphenyl-d14	↓	1.196	120	120	↓
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 #: 26407E20

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: 516

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	33.3	0.75	32.78	34.58	96	96	101	101	5	5
Pentachlorophenol											
Pyrene	↓	↓	60.5	141.62	203.8	243	243	430	430	36	36

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 #: 26407E15

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: 213LBLCS

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	32.55	NA	98	98				
Pentachlorophenol										
Pyrene	33.33	NA	32.43	NA	97	97	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 #: 26407E2b

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. #1 , S :

Conc. = (46059)(1)(1000)( )( ) / (86/159)(1.044)(30)(0.99)( )

= 1.72 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: July 21, 2011

LDC Report Date: October 24, 2011

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 6 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses w ere 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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

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
8/11/11	1P10223.76-CCV	RTX-CLP1	4,4'-DDT	20.7	SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD PBLK11214	J (all detects) UJ (all non-detects)	A
8/11/11	1P10223.76-CCV	RTX-CLP1	Methoxychlor	21.3	SL-211-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD PBLK11214	J (all detects) UJ (all non-detects)	A
8/18/11	IP10229.61-CCV	RTX-CLP1	4,4'-DDT	23.2	SL-214-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects)	A
8/18/11	IP10229.61-CCV	RTX-CLP2	4,4'-DDT	30.4	SL-214-SA6-SS-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
8/10/11	IP10223.11-ICV	RTX-CLPI	Endrin aldehyde	23.2	SL-211-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD PBLK11214	J (all detects) UJ (all non-detects)	A
8/10/11	IP10223.11-ICV	RTX-CLP2	Endrin aldehyde	21.9.	SL-211-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD PBLK11214	J (all detects) UJ (all non-detects)	A
8/10/11	IP10223.12-ICV	RTX-CLP1	gamma-BHC	69.1.	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD PBLK11214	J (all detects) UJ (all non-detects)	A
8/12/11	IP10224.11-ICV	RTX-CLP1	Endrin aldehyde	23.9	SL-214-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects)	A
8/12/11	IP10224.11-ICV	RTX-CLP2	Endrin aldehyde	21.0	SL-214-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects)	A

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% .

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
SL-214-SA6-SS-0.0-0.5	Not specified	Decachlorobiphenyl	694 (20-120)	alpha-BHC beta-BHC delta-BHC gamma-BHC Heptachlor Aldrin	J (all detects)	A
SL-219-SA6-SS-0.0-0.5	Not specified	Decachlorobiphenyl	160 (20-120)	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 with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	4,4'-DDE Endrin aldehyde	8 (18-161) 5 (10-148)	- 3 (10-148)	- -	J (all detects) UJ (all non-detects)	A
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	Dieldrin Endrin 4,4'-DDD Endosulfan Sulfate	0 (19-154) 0 (11-149) 169 (16-163) 0 (21-160)	0 (19-154) - 0 (16-163) 0 (21-160)	- 200 (≤50) 200 (≤50) -	J (all detects) R (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. 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 RLs

All compound quantitation and RLs 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
SL-219-SA6-SS-0.0-0.5	gamma-BHC 4,4'-DDE Endosulfan II Endrin aldehyde	65.86 63.95 87.15 66.49	J (all detects) J (all detects) J (all detects) J (all detects)	A
SL-211-SA6-SS-0.0-0.5	delta-BHC Heptachlor epoxide 4,4'-DDE Endrin aldehyde	48.50 58.0 64.93 48.21	J (all detects) J (all detects) J (all detects) J (all detects)	A
SL-214-SA6-SS-0.0-0.5	gamma-BHC 4,4'-DDE	50.97 68.02	J (all detects) J (all detects)	A
SL-216-SA6-SS-0.0-0.5	delta-BHC Heptachlor Heptachlor epoxide Methoxychlor 4,4'-DDE	54.37 91.42 51.0 67.15 53.27	J (all detects) J (all detects) J (all detects) 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 DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-214-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	4,4'-DDT	J (all detects) UJ (all non-detects)	A	Continuing calibration (CCV %D) (C)
DE205	SL-211-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Methoxychlor	J (all detects) UJ (all non-detects)	A	Continuing calibration (CCV %D) (C)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Endrin aldehyde gamma-BHC	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE205	SL-214-SA6-SS-0.0-0.5	alpha-BHC beta-BHC delta-BHC gamma-BHC Heptachlor Aldrin	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Surrogate spikes (%R) (S)
DE205	SL-219-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	A	Surrogate spikes (%R) (S)
DE205	SL-211-SA6-SS-0.0-0.5	4,4'-DDE Endrin aldehyde	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5	Dieldrin Endosulfan sulfate	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5	Endrin 4,4'-DDD	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (RPD) (Q)
DE205	SL-219-SA6-SS-0.0-0.5	gamma-BHC 4,4'-DDE Endosulfan II Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE205	SL-211-SA6-SS-0.0-0.5	delta-BHC Heptachlor epoxide 4,4'-DDE Endrin aldehyde	J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE205	SL-214-SA6-SS-0.0-0.5	gamma-BHC 4,4'-DDE	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-216-SA6-SS-0.0-0.5	delta-BHC Heptachlor Heptachlor epoxide Methoxychlor 4,4'-DDE	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E3a **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11

SDG #: DE205 Level IV 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: 7/21/11
II.	GC/ECD Instrument Performance Check	A	
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	SW	
VIII.	Laboratory control samples	A	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/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
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: SOIL

1	SL-211-SA6-SS-0.0-0.5	11	PBLK11214	21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26407E 3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FR
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?	✓			
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?		✓		
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 #: 26407E 3a
SDG #: all cores

VALIDATION FINDINGS CHECKLIST

Reviewer: M
2nd Reviewer: A

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 #: 26407E3a

VALIDATION FINDINGS WORKSHEET
Continuing 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".
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 ≤20.0%?
~~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 ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	8/10/11	IP10223.11-ICV	RTX clP1	R	23.2	( )	PBLK11214, 1, 3, 4,	J/UJ/A (C)
			RTX clP2	↓	21.9	( )	5, 6	↓
						( )		
						( )		
	8/10/11	IP10223.12-ICV	RTX clP1	D	69.1	( )	↓ + #2	↓
						( )		
						( )		
	8/12/11	IP10224.11-ICV	RTX clP1	R	23.9	( )	2	J/UJ/A (C)
			RTX clP2	↓	21.0	( )	↓	↓
						( )		
						( )		
	8/11/11	IP10223.76-CCV	RTX clP1	θ	20.7	( )	PBLK11214, 4,	J/UJ/A (C)
						( )	5, 6	
						( )	↓	
	8/11/11	↓	↓	P	21.3	( )	↓ + 1, 3	J/UJ/A (C)
						( )		
						( )		
						( )		
	8/18/11	IP10229.61-CCV	RTX clP1	θ	23.2	( )	2	J/UJ/A (C)
			RTX clP2	θ	30.4	( )	↓	↓
						( )		
						( )		
						( )		
						( )		

LDC #: 26467E3q

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

Reviewer: FT
2nd Reviewer: I

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	NS	O	694 (20-120)	J/A det qua/ A,D,B,C,E + F only
				( )	
				( )	
	B 4	NS	O	160 (20-120)	J/P det qual All
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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 #: 26467E 3a

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
	5 + 6	J	8 (18-161)	( )	( )	#1	J/UJ/A (Q)
		I	0 (19-154)	0 (19-154)	( )		J/R/A (Q)
		K	0 (11-149)	( )	200 (50)		
		M	169 (16-163)	0 (16-163)	200 (50)		
		O	( )	207 (10-176)	( )		no qual parent?
		R	5 (10-148)	3 (10-148)	( )		J/UJ/A (Q)
		N	0 (21-160)	0 (21-160)	( )		J/R/A (Q)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407E3Q
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: F7
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 but 2 col Finding ≤ 40	Associated Samples	Qualifications
	D	65.86	4	J/A qlt * XIII
	J	63.95		
	L	87.15	↓	↓
	R	66.49		

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407E3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

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
	C	48.50	# 1	J/A det *X11
	G	58.0		
	J	64.93	↓	↓
	R	48.21	↓	↓
	E	50.97	2	J/A det
	chlordane (Technical)	68.02	↓	↓
	C	54.37	3	J/A det
	E	91.42	↓	↓
	G	51.0		
	P	67.15	↓	↓
	J	53.27	↓	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407E3a
SDG #: per 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 (10/100 std)	Recalculated CF (10/100 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	IP10223	8/10/11	endosulfan I RTX-CLP	9.34×10^2	9.3×10^2	1.19×10^3	1.19×10^3	19.9	19.9
			methoxychlor ↓	3.66×10^2	3.66×10^2	4.57×10^2	4.57×10^2	11.6	11.6
			endosulfan I RTX-CLP	2.68×10^3	2.68×10^3	3.18×10^3	3.18×10^3	9.1	9.1
2			methoxychlor ↓	6.82×10^2	6.82×10^2	8.27×10^2	8.27×10^2	11.9	11.9
3	IP10224	8/12/11	↓	9.38×10^2	9.38×10^2	9.98×10^2	9.98×10^2	13.5	13.5
				3.85×10^2	3.85×10^2	3.75×10^2	3.75×10^2	5.8	5.8
				2.87×10^3	2.87×10^2	2.89×10^3	2.89×10^3	2.5	2.5
4			↓	7.17×10^2	7.17×10^2	6.95×10^2	6.95×10^2	5.5	5.5

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 #: 26407E3a
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FZ
2nd Reviewer: C

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 20029 CF (std)	Recalculated 20029 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	IP10228	8/16/11	4,4-DDT RTX colP1	5.53×10^2	5.53×10^2	5.44×10^2	5.44×10^2	8.0	8.0
			↓ colP2	1.87×10^3	1.87×10^3	1.91×10^3	1.91×10^3	4.6	4.6
2	IP10229	8/17/11	↓	3.95×10^2	3.95×10^2	4.21×10^2	4.21×10^2	6.7	6.7
				1.61×10^3	1.61×10^3	1.64×10^3	1.64×10^3	3.6	3.6
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 #: 26407E3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer:
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	IP10223.76	8/11/11	endosulfan I / RTX clP1	10.0	8.22	8.22	17.8	17.8
			methoxychlor	100.0	78.72	78.72	21.3	21.3
			RTX clP2		8.40	8.40	16.0	16.0
2			↓	↓	84.38	84.38	15.7	15.7
	IP10224.5R	8/12/11	↓					
			↓	10.0	8.76	8.76	12.4	12.4
3			↓	100.0	95.23	95.23	4.8	4.8
			↓	10.0	9.15	9.15	8.5	8.5
				100.0	92.40	92.40	7.6	7.6
4	IP10229.6	8/18/11	4,4-DDT RTX clP1	20.02	15.37	15.37	23.2	23.2
			clP2	20.02	13.93	13.93	30.4	30.4

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.

SDG #: per cover

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: # 1

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene	RTX CLP2	1.04	0.812276	78	78	0
Decachlorobiphenyl	RTX CLP1	↓	1.229885	118	118	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 #: 26407E39
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

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 us the following calculation:

% Recovery = 100* (SSC-SC)/SA

Where: SSC = Spiked sample concentration
SA = Spike added
SC = Concentration

RPD = I MS - MSD I * 2/(MS + MSD)

MS = Matrix spike percent recovery

MSD = Matrix spike duplicate percent recovery

MS/MSD samples: 5 + 6

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	0.34	0.34	ND	0.38	0.33	112	112	97	97	14	14
4,4'-DDT	0.71	0.71	5.19	6.07	6.66	124	124	207	207	9	9

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.(of the recalculated results.

LDC #: 26407E3c
SDG #: all cond

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Page: 6 of
Reviewer:
2nd Reviewer:

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 th 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: 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.
gamma-BHC	0.34	NA	0.28	NA	82	82				
4,4'-DDT	0.71	↓	0.59	↓	83	83	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 #: 26407E3a
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

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 delta - BHC

$$\text{Conc.} = \frac{(6657)(10{,}000)(0.4)}{(2.78\times10^{7})(40)(0.99)(1000)}$$

=

0.16 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: July 21, 2011

LDC Report Date: October 26, 2011

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 6 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
8/3/11	2P20214B.32R	ZBMultiR2	Aroclor-5460	26.6	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD PBLK09214	Aroclor-5460	J (all detects) UJ (all non-detects)	A

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. Surrogate recoveries (%R) were not within QC limits for SL-214-SA6-SS-0.0-0.5. Since the sample was diluted out, no data were qualified.

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 not within QC limits. Since the samples were diluted out, no data were qualified.

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 RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
SL-211-SA6-SS-0.0-0.5	Aroclor-1254	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

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
SL-216-SA6-SS-0.0-0.5	Aroclor-1260	54.60	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5	Aroclor-5460	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE205	SL-211-SA6-SS-0.0-0.5	Aroclor-1254	J (all detects)	A	Compound quantitation and RLs (exceeded range) (*XIII)
DE205	SL-216-SA6-SS-0.0-0.5	Aroclor-1260	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E3b **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11

SDG #: DE205 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FT

2nd Reviewer:

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: 7/21/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	%D ≤ 20
IV.	Continuing calibration/ICV	SW/A	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	SW	
VIII.	Laboratory control samples	A	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/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
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:

SOIL

1	SL-211-SA6-SS-0.0-0.5	11	PBLK092/4	21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26407E3b
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?	✓			
X. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	

LDC #: 26407E3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
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.			✓	

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 #: 26407E3b

VALIDATION FINDINGS WORKSHEET
Continuing 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".
What type of continuing calibration calculation was performed? ___%D or ___RPD

Y N N/A Were continuing calibration standards analyzed at the required frequencies?
X N N/A Did the continuing calibration standards meet the %D / RPD validation criteria of ≤20.0%?
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 ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	8/3/11	2P20214B.32R	ZB multi R2	Aroclor 5460	26.6	( )	PBLK09214,	J/UJ/A (C)
	23:55					( )	1-3, 5, 6	5460 only
						( )		
						( )		
						( )		
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LDC #: 26407E3b

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	NS	O	129 (45-120)	no qual 50x PL
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
				( )	

	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 #: 26407E3b

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
	5 + 6	BB	%R (outside criteria)	( )	( )	#1	no qual 5# PL
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407E3b
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: F7
2nd Reviewer: C

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	Associated Samples	Qualifications
	AA	x'd cal Range	1	J/A det * XIII

Comments: See sample calculation verification worksheet for recalculations

LDC #: 24407E3b
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: F7
2nd Reviewer: C

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 ≤ 40 (% RPD Bet 2 columns) Finding	Associated Samples	Qualifications
	BB	54.60	3	J/Adet * XIII

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407E3b
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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 CF (200std)	Recalculated CF (200std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL IP20214	8/2/11	Aroclor 1260-1 2B Multi R1	51	57	55	55	6.8	6.8
			↓ R2	266	266	280	280	5.7	5.7
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 #: 36407E3b
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	3P20214.31	8/3/11	Aroclor 1260 R1	200	171.23	171.23	14.4	14.4
	23:36		R2	↓	178.07	178.07	11.0	11.0
2	3P20214.05	8/5/11	↓	↓	200.07	200.07	0	0
	13:15				193.50	193.50	3.3	3.3
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 #: [illegible]

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-R1	1.05	0.702116	68	67	1
PCB	ZB-R2	1.05	1.064843	102	102	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 #: [illegible]
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FZ
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: 5 + 6

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-1016	16.67	16.67	ND	15.38	16.69	92	92	100	100	8	8

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 #: 26407E3b
SDG #: fill cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FO
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 = | 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/D 092104

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	~~16.67~~ NA	16.12	NA	97	97	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 #: 26407E3b
SDG #: per Corey

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 agree 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 Aroclor 1260

Concentration = $\frac{31.745}{(0.99)}$

= 32 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	1260-4 = (15894.078121)(2)(5) / (101)(60)		= 26.23	1260-4 =	26.23
				5 =	41.45
				6 =	27.52
					31.745

Comments: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 21, 2011

LDC Report Date: October 24, 2011

Matrix: Soil

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD
SL-211-SA6-SS-0.0-0.5DUP

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 Methods 6010B, 6020, and 7471A 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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)	Boron Calcium Iron Lead Magnesium Tin Vanadium Zirconium	0.994 mg/Kg 10.980 mg/Kg 4.841 mg/Kg 0.033 mg/Kg 0.658 mg/Kg 1.164 mg/Kg 0.024 mg/Kg 0.676 mg/Kg	All samples in SDG DE205
ICB\CCB	Aluminum Beryllium Cobalt Lead Lithium Vanadium Zirconium	101 ug/L 0.072 ug/L 0.14 ug/L 0.056 ug/L 3.5 ug/L 0.14 ug/L 4.0 ug/L	All samples in SDG DE205

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-211-SA6-SS-0.0-0.5	Tin	3.0 mg/Kg	3.0U mg/Kg
SL-214-SA6-SS-0.0-0.5	Tin Zirconium	3.3 mg/Kg 3.7 mg/Kg	3.3U mg/Kg 3.7U mg/Kg
SL-216-SA6-SS-0.0-0.5	Tin Zirconium	3.3 mg/Kg 3.6 mg/Kg	3.3U mg/Kg 3.6U mg/Kg
SL-219-SA6-SS-0.0-0.5	Tin Zirconium	2.8 mg/Kg 3.2 mg/Kg	2.8U mg/Kg 3.2U 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-211-SA6-SS-0.0-0.5MS/MSD (All samples in SDG DE205)	Antimony	33 (75-125)	44 (75-125)	-	J (all detects) UJ (all non-detects)	A
	Lead	-	-	22 (≤20)	J (all detects) UJ (all non-detects)	
SL-211-SA6-SS-0.0-0.5MS/MSD (All samples in SDG DE205)	Arsenic	188 (75-125)	201 (75-125)	-	J (all detects)	A
	Beryllium	149 (75-125)	157 (75-125)	-	J (all detects)	
	Cadmium	156 (75-125)	140 (75-125)	-	J (all detects)	
	Chromium	186 (75-125)	180 (75-125)	-	J (all detects)	
	Cobalt	135 (75-125)	144 (75-125)	-	J (all detects)	
	Copper	178 (75-125)	169 (75-125)	-	J (all detects)	
	Molybdenum	132 (75-125)	140 (75-125)	-	J (all detects)	
	Nickel	201 (75-125)	190 (75-125)	-	J (all detects)	
	Potassium	189 (75-125)	187 (75-125)	-	J (all detects)	
	Silver	138 (75-125)	144 (75-125)	-	J (all detects)	
	Thallium	136 (75-125)	167 (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-211-SA6-SS-0.0-0.5DUP (All samples in SDG DE205)	Arsenic Molybdenum Vanadium	29 (≤20) 22 (≤20) 23 (≤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.

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 DE205	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 DE205

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Antimony	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Lead	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Arsenic Beryllium Cadmium Chromium Cobalt Copper Molybdenum Nickel Potassium Silver Thallium	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)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Arsenic Molybdenum Vanadium	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-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
Metals - Laboratory Blank Data Qualification Summary - SDG DE205

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE205	SL-211-SA6-SS-0.0-0.5	Tin	3.0U mg/Kg	A	B
DE205	SL-214-SA6-SS-0.0-0.5	Tin Zirconium	3.3U mg/Kg 3.7U mg/Kg	A	B
DE205	SL-216-SA6-SS-0.0-0.5	Tin Zirconium	3.3U mg/Kg 3.6U mg/Kg	A	B
DE205	SL-219-SA6-SS-0.0-0.5	Tin Zirconium	2.8U mg/Kg 3.2U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11

SDG #: DE205 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: MG

METHOD: Metals (EPA SW 846 Method 6010B/6020A/~~7000~~ 7471A)

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: 7/21/11
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 digested
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	A	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-211-SA6-SS-0.0-0.5	11		21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5MSD	16		26		36	
7	SL-211-SA6-SS-0.0-0.5DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

.DC #: 260464

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: MG

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?	✓			

DC #: 264074

VALIDATION FINDINGS CHECKLIST

Reviewer: AR
2nd Reviewer: MG

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 #: 26407C4

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer: MG

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
LY		Al, Sb, As, Ba, Be, B, Cd, 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
QCS-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

LDC #: 26407E4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: OR
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x MS: 2xdil
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 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						
Al			101	50.5										
B	0.994			4.97										
Be			0.072	0.07										
Ca	10.980			54.9										
Co			0.14	0.14										
Fe	4.841			24.21										
Pb	0.033		0.056	0.165										
Li			3.5	1.75										
Mg	0.658			3.29										
Sn	1.164			5.82	3.0	3.3	3.3	2.8						
V	0.024		0.14	0.14										
Zr	0.676		4.0	4		3.7	3.6	3.2						

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 #: 26407E4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: CR
2nd Reviewer: MG

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	Concentration (ug/L)	Limit (<MDL)	Associated Samples	Qualifications
	7/30/11	ICSA (11-01/12-11)	Mn	4	0.36	All	No Qual (>10x)

Comments:

LDC #: 26407E4

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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

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
	5/6	S	Sb	33	44		All	J/UJ/A (Q)
			As	188	201			J det/A
			Be	149	157			
			Cd	156	140			
			Cr	186	180			
			Co	135	144			
			Cu	178	169			
			Pb			22		J/UJ/A (E)
			Mo	132	140			J det/A (Q)
			Ni	201	190			
			K	189	187			
			Ag	138	144			
			Tl	136	167			

Comments:

LDC #: 26407E4

VALIDATION FINDINGS WORKSHEET
Duplicate Analysis

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

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
		7	S	As	29 (<20)		All	J/UJ (ACE)
				Mo	22		↓	↓
				V	23		↓	↓

Comments: _____

DUP.4SW

LDC #: 26407E4

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: CS
2nd Reviewer: MG

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 / True x 100 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)	Ca	30183.6	30000	100.6	100.6	Y
ICV	ICP/MS (Initial calibration)	Be	51.97	50	103.9	103.9	
ICV	CVAA (Initial calibration)	Hg	2.36	2.5	94.4	94.4	
CCV	ICP (Continuing calibration)	K	23642.11	25000	94.6	94.6	
CCV	ICP/MS (Continuing calibration)	Ni	241.5	250	96.6	96.6	
CCV	CVAA (Continuing calibration)	Hg	0.99	1.0	99.0	99.0	
	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 #: 26407C4

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: CR
2nd Reviewer: MG

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 / C / SDR (units) mg/kg	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Zn	101.4 ug/L	20 ug/L	97	97	Y
LCS	Laboratory control sample	Sr	73.8	73.2	101	101	↓
5	Matrix spike	Be	(SSR-SR) 1.1901	0.8009	149	149	↓
9	Duplicate	Mn	286.4735	322.7065	12	12	↓
1	ICP serial dilution	Ti	10483.22 ug/L	10943.60 ug/L	4	4	↓

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.

SDC #: 2640164

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CC
2nd reviewer: MG

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:

$$\frac{100\,mL\,(157.60097\,mg/L)}{0.989\,(1.03g)} = 1547.1\,mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	15500	15500	Y
		Sb	0.17	0.17	
		As	5.0	5.0	
		Ba	145	145	
		Be	0.77	0.77	
		B	7.2	7.2	
		Cd	0.76	0.76	
		Ca	2590	2590	
		Cr	27.0	27.0	
		Co	7.2	7.2	
		Cu	19.1	19.1	
		Fe	19200	19200	
		Pb	40.2	40.2	
		Li	20.0	20.0	
		Mg	4230	4230	
		Mn	286	286	
		Hg	0.044	0.044	
		Mo	0.75	0.75	
		Ni	21.7	21.7	
		P	450	450	

Note:

LDC #: 26407K4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: AR
2nd reviewer: MG

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)
	1	K	3810	3810	Y
		Se	0.19	0.19	
		Ag	1.2	1.2	
		Na	80.0	80.0	
		Sr	23.0	23.0	
		Tl	0.40	0.40	
		Sn	3.0	3.0	
		Ti	1030	1030	
		V	42.4	42.4	
		Zn	121	121	
		Zr	4.1	4.1	

Note: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 21, 2011

LDC Report Date: October 21, 2011

Matrix: Soil

Parameters: Herbicides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 6 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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 herbicide contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
PBLK11213	8/1/11	MCPP 2,4,5-T	210 ug/Kg 0.082 ug/Kg	All samples in SDG DE205

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.

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
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	MCPA	0 (10-213)	-	200 (≤50)	J (all detects) R (all non-detects)	A
	Dinoseb	0 (10-46)	7 (10-46)	200 (≤50)	J (all detects) R (all non-detects)	
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	2,4,5-TP	19 (24-141)	22 (24-141)	-	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) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS11213	Dinoseb	6 (10-36)	All samples in SDG DE205	J (all detects) R (all non-detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs 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
SL-216-SA6-SS-0.0-0.5	Dicamba MCPP	62.62 139.60	J (all detects) J (all detects)	A
SL-219-SA6-SS-0.0-0.5	Dicamba MCPP MCPA	48.19 42.46 67.32	J (all detects) 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 DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-211-SA6-SS-0.0-0.5	MCPA Dinoseb	J (all detects) R (all non-detects) J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE205	SL-211-SA6-SS-0.0-0.5	2,4,5-TP	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Dinoseb	J (all detects) R (all non-detects)	P	Laboratory control samples (%R) (L)
DE205	SL-216-SA6-SS-0.0-0.5	Dicamba MCPP	J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE205	SL-219-SA6-SS-0.0-0.5	Dicamba MCPP MCPA	J (all detects) J (all detects) J (all detects)	A	Compound quantitation and CRQLs (RPD) (*IX)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E5 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/19/11
SDG #: DE205 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: 7/21/11
II	Initial calibration	A	% RSD ≤ 20, r2
III.	Calibration verification/ICV	A	ICV/CCV ≤ 20
IV.	Blanks	SW	
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/RL/LOQ/LODs	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-211-SA6-SS-0.0-0.5	11	PBLK11213	21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

DC #: 264075
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 #: 26407E5
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.			✓	

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. Trichlorfnate	
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. Sulfotep		
			U. Tokuthion		

Notes: _____

LDC #: 26407E5

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: EJ
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 all samples associated with a given method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction procedure was performed?
Y N N/A Was a method blank performed with each extraction batch?
Y N N/A Were any contaminants found in the method blanks? If yes, please see findings below.

Level IV/D Only

Y N N/A (Gasoline and aromatics only)Was a method blank analyzed with each 24 hour batch?
Y N N/A Was a method blank analyzed for each analytical / extraction batch of ≤20 samples?

Blank extraction date: 8/01/11 **Blank analysis date:** 8/4/11 **Associated samples:** All (ND + 75X)
Conc. units: ug/Kg

Compound	Blank ID	Sample Identification						
	PBLK11213	5X						
I	210	1050						
C	0.082	0.41						

Blank extraction date: _____ **Blank analysis date:** _____ **Associated samples:** _____
Conc. units: _____

Compound	Blank ID	Sample Identification						

ALL 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 #: 26407E5

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
	5+6	J	0 (10-213)	( )	200 (50)	All	J/R/A Q
		D	19 (24-141)	22 (24-141)	( )	↓	J/UJ/A ↓
		E	0 (10-46)	7 (10-46)	200 ( )	↓	J/R/A ↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407E5

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 11213	E	6 (10-36	( )	( )	All	J/R/P (L)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26407E5
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: F7
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 col Finding ±40	Associated Samples	Qualifications
	~~G~~ G	62.62	3	J/Adet *IX
	I	139.60	↓	↓
	G	48.19	4	
	I	42.46		
	J	67.32		↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26407E5
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 (410.4/110.7 std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL 1H1521H	8/2/11	Dalapon ZB XLB	1.65×10^{-1}	1.65×10^{-1}	1.61×10^{-1}	1.61×10^{-1}	10.6	10.6
			Dinoseb ~~ZB35~~ ↓	3.82×10^{-1}	3.82×10^{-1}	4.26×10^{-1}	4.26×10^{-1}	17.0	17.0
2	ICAL 1H1521HB	8/2/11	↓ ZB35 ↓	1.55×10^{-1}	1.55×10^{-1}	1.51×10^{-1}	1.51×10^{-1}	10.6	10.6
				3.70×10^{-1}	3.70×10^{-1}	4.13×10^{-1}	4.13×10^{-1}	14.2	16.2
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 #: 26407E5
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	CCV 22:45	8/3/11	Dalapon ZB-XLB	410.40	442.75	442.75	442.75	7.9
			Dinoseb	100.70	85.37	85.37	85.37	15.2
			ZB-35	↓	437.60	437.60	6.6	6.6
2			↓	↓	88.05	88.05	12.6	12.6
	CCV 4:17	8/4/11	ZB ~~-XLB~~ 35	↓	433.78	433.78	5.7	5.7
			↓	↓	89.16	89.16	11.5	11.5
3			ZB-XLB	↓	441.28	441.28	7.5	7.5
			↓	↓	85.40	85.40	15.2	15.2
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 #:_____

SDG #: see cover

METHOD: ✓ GC __ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: ✓

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
1				Reported	Recalculated	
2,4-DCAA	ZB-XLB	6.66	5.57754	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 #:_____ VALIDATION FINDINGS WORKSHEET Page: 1 of 1

SDG #: [illegible] Matrix Spike/Matrix Spike Duplicates Results Verification Reviewer: FZ

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; SA = Spike added; SC = Sample concentration

RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike; MSD = Matrix spike duplicate

MS/MSD samples: 5 + 6

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)	8.29	8.29	ND	5.91	6.25	71	71	75	75	6	6
Dinoseb (8151)	14.11	14.11	ND	0	1.02	0	0	7	7	200	200
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 #: 26407E5
SDG #: µu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FQ
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 = | 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 11213

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	7.67	NA	92	92				
Dinoseb (8151)	14.18	↓	0.86	↓	6	6	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 #: 26407E5
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

$$\text{Concentration} = \frac{5787 \quad (100)(2)}{(37350)(0.7087)(60)(0.99)}$$

$$= 0.74$$

#	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: July 21, 2011

LDC Report Date: October 24, 2011

Matrix: Soil

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-214-SA6-SS-0.0-0.5
SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5DUP

Introduction

This data review covers 6 soil 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, 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 deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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-211-SA6-SS-0.0-0.5MS (All samples in SDG DE205)	Fluoride	40 (80-120)	J (all detects) UJ (all non-detects)	A
	Hexavalent chromium	49 (75-125)	J (all detects) UJ (all non-detects)	

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 DE205	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 DE205

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	Fluoride Hexavalent chromium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike analysis (%R) (Q)
DE205	SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-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 DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E6 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11

SDG #: DE205 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: AL

2nd Reviewer: MG

METHOD: (Analyte) Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 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: 7/21/11
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	SW	MS
V	Duplicates	A	Dup
VI.	Laboratory control samples	A	LCS
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
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	SL-211-SA6-SS-0.0-0.5	11		21		31	
2	SL-214-SA6-SS-0.0-0.5	12		22		32	
3	SL-216-SA6-SS-0.0-0.5	13		23		33	
4	SL-219-SA6-SS-0.0-0.5	14		24		34	
5	SL-211-SA6-SS-0.0-0.5MS	15		25		35	
6	SL-211-SA6-SS-0.0-0.5DUP	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Reviewer: CF
2nd Reviewer: MG

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?			✓	

LDC #: 26401E0

VALIDATION FINDINGS CHECKLIST

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

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 #: 164076

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CC
2nd reviewer: MG

All circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-4		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 5,6		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
		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 #: 26467G6

VALIDATION FINDINGS WORKSHEET
Matrix Spike Analysis

Reviewer: CR
2nd Reviewer: MG

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
		5	S	F	40 (80-120)	All	J/UJ/A (Q)
				Cl-	49 (75-125)	↓	↓

Comments:

LDC #: 26407E6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Reviewer: CR
2nd Reviewer: MG

Method: Inorganics, Method See Cover

The correlation coefficient (r) for the calibration of ClO4 was recalculated. Calibration date: 7/11/11

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. (mg/L)	Area	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	ClO4	s1	2	0.002	*1.000*	1.000	Y
		s2	4	0.008			
		s3	10	0.027			
		s4	25	0.07			
		s5	100	0.302			
Calibration verification	F	CCV	1.5	1.583	105	105	
Calibration verification	ClO4	CCV	100	102.7819	103	103	
Calibration verification	Cr6+	CCV	200	204.8768	102	102	

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 #: 65407E0

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer: MG

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	9.9	10	99	-	Y
5	Matrix spike sample	ClO4	(SSR-SR) 5.4	493	104	104	↓
6	Duplicate sample	Cr+6	0.93	0.78	18	18	↓

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 #: 26467E6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: MG

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 =

$y = 0.1962x - 0.0037$

Recalculation:

$$\frac{(0.026+0.0037)(50\ mL)}{0.9354(5.04g)(0.1962)} = 1.6\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	F	1.5	1.6	Y
		Got	0.94	0.95	J

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	July 21, 2011
LDC Report Date:	October 21, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE205

Sample Identification

SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5

Introduction

This data review covers 2 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E8 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/19/11
SDG #: DE205 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
2nd Reviewer:

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: 7/21/11
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/RL/LOQ/LODs	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-216-SA6-SS-0.0-0.5	11	PBLK022208	21		31	
2	SL-219-SA6-SS-0.0-0.5	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26407E8
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

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 #: 26407E8
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 #: 26407E5
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: EJ
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

#	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	7/12/11	C8 - C40	18866.	18866	19634	19634	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 #: 26407E3
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: C

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 2:59	7/28/11	C8 – C40	575.96	657.14	657.14	14.1	14.1
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 #: [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	
chlorobenzene	NS	1.0	0.829	83	83	0
orthoterphenyl	↓	1.0	1.063	106	106	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 #: 26407CS
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FR
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 (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	0.69	NA	82	82	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 #: 26407E8
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. #1 Compound Name $C_{30}-C_{40}$ (EFH)

Concentration = $\frac{4465\,2610\ (1000)}{19634\ (60)\ (0.91)\ (0.991)\ (1000)}$

= 38 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:	July 21, 2011
LDC Report Date:	October 21, 2011
Matrix:	Soil
Parameters:	Terphenyls
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE205

Sample Identification

SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5

Introduction

This data review covers 2 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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) were within QC limits.

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E41 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/19/11
SDG #: DE205 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 7/21/11
II	Initial calibration	A	% RSD ≤20
III.	Calibration verification/ICV	A	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/RL/LOQ/LODs	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-216-SA6-SS-0.0-0.5	11	PBLK 32214	21		31	
2	SL-219-SA6-SS-0.0-0.5	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26407E41
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: RJ
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 #: 26407E4
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 #: 26407E41
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 (17.71 std)	Recalculated CF (17.74 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/28/11	o-Terphenyl SPB-5	2.07×10^4	2.07×10^4	1.99×10^4	1.99×10^4	2.5	2.5
2	ICAL	7/28/11	↓						
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 #: 26407E41
SDG #: fw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
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 9:27	8/4/11	o-Terphenyl	17.74	18.33	18.33	3.3	3.3
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 #: [illegible]

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	
n-Triacontane-d62	NS	0.333	0.25 4265	76	76	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 #: 26407C11
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
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 (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	1.65	NA	1.41	NA	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 #: 26407E4/
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 = _____

NP

#	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: July 21, 2011

LDC Report Date: October 21, 2011

Matrix: Soil

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5

Introduction

This data review covers 2 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All 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.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E43 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/14/11
SDG #: DE205 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: B
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: 7/21/11
II	Initial calibration	A	%RSD ≤ 20
III.	Calibration verification/ICV	A	CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified LCS
VII.	Laboratory control samples	A	
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	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-216-SA6-SS-0.0-0.5	11	PBLK 24208	21		31	
2	SL-219-SA6-SS-0.0-0.5	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26407E43
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FM
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 #: 26407543
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: C

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 #: 26407E43
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: EJ
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

3 @ 1:28

#	Standard ID	Calibration Date	Compound	Reported CF (5000_{std})	Recalculated CF (5000_{std})	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/28/11	Methanol	3.25×10^{-1}	3.25×10^{-1}	3.46×10^{-1}	3.46×10^{-1}	14.0	14.0
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 #: 26407E43
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	dcv 17:24	7/28/11	methanol	5000.00	4768.12	4768.12	4.6	4.6
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 #: _____

SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: ✓

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	NJ	2500	2613.374	105	105	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 #: 26407E43
SDG #: all 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)										
Methanol	2500	NA	2/22.72	NA	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 #: 26407E43
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:	July 21, 2011
LDC Report Date:	October 21, 2011
Matrix:	Soil
Parameters:	Glycols
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE205

Sample Identification

SL-216-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5

Introduction

This data review covers 2 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All 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

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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 DE205

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE205	SL-216-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE205

No Sample Data Qualified in this SDG

LDC #: 26407E45 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/19/11

SDG #: DE205 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: FR

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: 7/21/11
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/RL/LOQ/LODs	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-216-SA6-SS-0.0-0.5	11	PBLK01204	21		31	
2	SL-219-SA6-SS-0.0-0.5	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

DC #: 364076
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: PJ
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 #: 26407E45
SDG #: all cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
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 #: 26407E4T
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FJ
2nd Reviewer: A

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

4

#	Standard ID	Calibration Date	Compound	Reported CF (std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
				210.7158	210.7168				
1	ICAL	7/13/11	Propylene Glycol	7.60×10^2	7.60×10^2	7.67×10^2	7.67×10^2	2.4	2.4
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.

INICIAL/SB

LDC #: 26407E45
SDG #: fw comm

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 7:57	7/23/11	Propylene glycol	105.36	106.13	106.13	0.7	0.7
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 #: [illegible]

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	
Tetramethylene glycol	NS	192.545	178.6819	93	93	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 #: 26407E41
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
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 = | 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: LCS01204

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	192.77	NA	164.51	NA	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 #: 26407E45
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: July 21, 2011

LDC Report Date: October 21, 2011

Matrix: Soil

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE205

Sample Identification

SL-211-SA6-SS-0.0-0.5
SL-219-SA6-SS-0.0-0.5
SL-211-SA6-SS-0.0-0.5MS
SL-211-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 2 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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 with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-211-SA6-SS-0.0-0.5MS/MSD (SL-211-SA6-SS-0.0-0.5)	Perchlorate	-	121 (80-120)	-	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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE205	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.

LDC #: 26407E87 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/19/11

SDG #: DE205 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: 7/21/11
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	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/RL/LOQ/LODs	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-211-SA6-SS-0.0-0.5	11	PBLK22213	21		31	
2	SL-219-SA6-SS-0.0-0.5	12		22		32	
3	SL-211-SA6-SS-0.0-0.5MS	13		23		33	
4	SL-211-SA6-SS-0.0-0.5MSD	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 #: 26407E87

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

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 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?	✓			
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%~~ 15/20 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. Surrogate spikes				
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?	✓			

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?	✓			
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 from 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 of Data				
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.			✓	

LDC #: 26407E87

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

METHOD: ~~GC/MS BNA (EPA SW-846 Method 8270)~~ 6850

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
		3 + 4	Perchlorate	( )	121 (80-120	( )	#1	J / A det Q
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		

LDC # 26407E87
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	
08/08/2011	LCMS	perchlorate	0.035076	0.040	
			0.078526	0.100	
			0.168897	0.200	
			0.348140	0.400	
			0.903796	1.000	
			2.494629	2.500	

Regression Output:		Regression Output:	Reported	
Constant		-0.03676		
Std Err of Y Est		0.03869		
R Squared		0.99867		0.99673
No. of Observations		6.00000		
Degrees of Freedom		4.00000		
X Coefficient(s)	1.002E+000	0.12		
Std Err of Coef.	0.018309	0.02		

LDC #: 26407E87

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270C)~~ 6840

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 conc. RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	MS5P2151102/	8/8/11	~~Phenol (1st internal standard)~~ Perchlorate	0.4	0.452	0.452	13	13
			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 #: 26407E81

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: A

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~ 6850

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: 3 + 4

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	119	121	119	119	121	121	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 #: 26407E87

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)~~ 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 22213

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	114	NA	114	114	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 #: 26407E87

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_t	=	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 , perchlorate

Conc. = ( )( )( )( )( ) / ( )( )( )( )( )

=

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification
		$\frac{1192}{8960} - (0.0967)\left(\frac{x}{10}\right) = 0.0119$			
		$x = 2.6$ ug/kg			

RECALC.2S

SAMPLE DELIVERY GROUP

DE206

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jul-2011	TB-072111	6353043	TB	5030B	8015M	III
21-Jul-2011	TB-072111	6353043	TB	5030B	8260B	III
21-Jul-2011	TB-072111	6353043	TB	5030B	8260B SIM	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3050B	6010B	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3050B	6020	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3550B	8015B	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3550B	8015M	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3550B	8082	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3550B	8270C	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	3550B	8270C SIM	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	5035	8015M	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	5035	8260B	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	5035	8260B SIM	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	Gen Prep	7199	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	METHOD	300.0	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	METHOD	314.0	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	METHOD	6850	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	METHOD	7471A	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	METHOD	8015B	III
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353038	N	METHOD	8015M	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3050B	6010B	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3050B	6020	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3550B	8081A	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3550B	8082	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3550B	8151A	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	3550B	8270C SIM	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	Gen Prep	7199	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	METHOD	300.0	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	METHOD	314.0	III
21-Jul-2011	DUP05-SA6-QC-072111	6353037	FD	METHOD	7471A	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3050B	6010B	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3050B	6020	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3550B	8015B	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3550B	8015M	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3550B	8082	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3550B	8270C	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	3550B	8270C SIM	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	5035	8015M	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	5035	8260B	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	5035	8260B SIM	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	Gen Prep	7199	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	METHOD	300.0	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	METHOD	314.0	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	METHOD	6850	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	METHOD	7471A	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	METHOD	8015B	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353042	N	METHOD	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3050B	6010B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3050B	6020	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3546	1625C	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	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
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3550B	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3550B	8081A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3550B	8082	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3550B	8151A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3550B	8270C	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	3550B	8270C SIM	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	8330	8330A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	Gen Prep	7199	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	300.0	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	314.0	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	7471A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	8015B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	8315A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353026	N	METHOD	9012B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3050B	6010B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3050B	6020	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3546	1625C	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8015B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8081A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8082	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8151A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8270C	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	3550B	8270C SIM	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	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
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	Gen Prep	7199	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	300.0	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	314.0	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	7471A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	8015B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	8315A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353027	MS	METHOD	9012B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3050B	6010B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3050B	6020	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3546	1625C	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8015B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8081A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8082	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8151A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8270C	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	3550B	8270C SIM	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	8330	8330A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	METHOD	7471A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	METHOD	8015B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	METHOD	8015M	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353028	MSD	METHOD	8315A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	3050B	6010B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	3050B	6020	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	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-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	3550B	8151A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	Gen Prep	7199	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	METHOD	300.0	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	METHOD	314.0	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	METHOD	7471A	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5DUP	6353029	DUP	METHOD	9012B	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3050B	6010B	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3050B	6020	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3546	1625C	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8015B	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8015M	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8081A	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8082	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8151A	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8270C	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	3550B	8270C SIM	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	8330	8330A	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	Gen Prep	7199	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	300.0	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	314.0	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	7471A	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	8015B	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	8015M	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	8315A	III
21-Jul-2011	DUP06-SA6-QC-072111	6353036	FD	METHOD	9012B	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	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
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	3050B	6020	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	3550B	8081A	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	3550B	8082	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	3550B	8151A	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	3550B	8270C	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	3550B	8270C SIM	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	Gen Prep	7199	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	METHOD	300.0	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	METHOD	314.0	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	METHOD	6850	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353032	N	METHOD	7471A	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5MSD	P353032M241319A	MSD	METHOD	6850	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5MS	P353032R241313A	MS	METHOD	6850	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3050B	6010B	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3050B	6020	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3546	1625C	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8015B	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8015M	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8081A	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8082	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8151A	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8270C	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	3550B	8270C SIM	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	8330	8330A	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	Gen Prep	7199	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	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
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	METHOD	314.0	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	METHOD	7471A	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	METHOD	8015B	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	METHOD	8015M	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	METHOD	8315A	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353033	N	METHOD	9012B	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3050B	6010B	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3050B	6020	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3550B	8081A	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3550B	8082	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3550B	8151A	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3550B	8270C	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	3550B	8270C SIM	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	Gen Prep	7199	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	METHOD	300.0	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	METHOD	314.0	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353030	N	METHOD	7471A	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3050B	6010B	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3050B	6020	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3550B	8081A	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3550B	8082	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3550B	8151A	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3550B	8270C	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	3550B	8270C SIM	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	Gen Prep	7199	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	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
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	METHOD	314.0	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	METHOD	6850	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353034	N	METHOD	7471A	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3050B	6010B	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3050B	6020	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3550B	8015B	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3550B	8015M	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3550B	8082	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3550B	8270C	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	3550B	8270C SIM	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	5035	8015M	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	5035	8260B	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	5035	8260B SIM	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	Gen Prep	7199	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	METHOD	300.0	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	METHOD	314.0	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	METHOD	6850	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	METHOD	7471A	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	METHOD	8015B	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353041	N	METHOD	8015M	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	3050B	6010B	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	3050B	6020	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	3550B	8081A	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	3550B	8082	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	3550B	8151A	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	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
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	3550B	8270C SIM	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	Gen Prep	7199	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	METHOD	300.0	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	METHOD	314.0	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353035	N	METHOD	7471A	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3050B	6010B	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3050B	6020	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3546	1625C	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8015B	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8015M	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8081A	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8082	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8151A	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8270C	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	3550B	8270C SIM	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	8330	8330A	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	Gen Prep	7199	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	300.0	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	314.0	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	7471A	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	8015B	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	8015M	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	8315A	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353031	N	METHOD	9012B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	3050B	6010B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	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-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	3550B	8015B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	3550B	8015M	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	3550B	8082	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	3550B	8270C	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	3550B	8270C SIM	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	5035	8015M	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	5035	8260B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	5035	8260B SIM	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	Gen Prep	7199	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	METHOD	300.0	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	METHOD	314.0	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	METHOD	6850	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	METHOD	7471A	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	METHOD	8015B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353039	N	METHOD	8015M	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0DUP	P353039D272254B	DUP	METHOD	314.0	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0MS	P353039R272340B	MS	METHOD	314.0	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3050B	6010B	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3050B	6020	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3550B	8015B	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3550B	8015M	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3550B	8082	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3550B	8270C	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	3550B	8270C SIM	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	5035	8015M	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	Gen Prep	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
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	METHOD	300.0	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	METHOD	314.0	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	METHOD	6850	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	METHOD	7471A	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	METHOD	8015B	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353040	N	METHOD	8015M	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0DUP	P353040D271601B	DUP	METHOD	300.0	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0MS	P353040R271615B	MS	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

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

Sample ID: DUP05-SA6-QC-072111 ***Collected:*** 7/21/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: DUP06-SA6-QC-072111 ***Collected:*** 7/21/2011 12:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.81	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.81	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA6-SB-4.0-5.0 ***Collected:*** 7/21/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-228-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 12:39:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.81	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.81	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 2:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-240-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 3:01:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-314-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 1:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.80	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.81	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.81	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.90	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.55	J	0.361	MDL	5.02	PQL	mg/Kg	U	B
POTASSIUM	4110		11.3	MDL	50.2	PQL	mg/Kg	J	Q
SODIUM	85.1	J	5.97	MDL	100	PQL	mg/Kg	J	Z
Zirconium	2.77	J	0.461	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.80	J	0.316	MDL	9.89	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.25	J	0.356	MDL	4.94	PQL	mg/Kg	U	B
POTASSIUM	3450		11.2	MDL	49.4	PQL	mg/Kg	J	Q
SODIUM	69.3	J	5.88	MDL	98.9	PQL	mg/Kg	J	Z
Zirconium	2.49	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.02	J	0.349	MDL	10.9	PQL	mg/Kg	U	B

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.682	J	0.392	MDL	5.45	PQL	mg/Kg	U	B
POTASSIUM	2670		12.3	MDL	54.5	PQL	mg/Kg	J	Q
Zirconium	3.46	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 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
TIN	3.18	J	0.334	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.573	J	0.375	MDL	5.21	PQL	mg/Kg	U	B
POTASSIUM	2770		11.8	MDL	52.1	PQL	mg/Kg	J	Q
Zirconium	2.45	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-9.0-10.0 *Collected:* 7/21/2011 3:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.12	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-081-SA6-SB-9.0-10.0 ***Collected:*** 7/21/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.561	J	0.390	MDL	5.41	PQL	mg/Kg	U	B
POTASSIUM	2710		12.2	MDL	54.1	PQL	mg/Kg	J	Q
Zirconium	1.91	J	0.498	MDL	5.41	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA6-SB-2.5-3.5 ***Collected:*** 7/21/2011 2:40:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.76	J	0.340	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-104-SA6-SB-2.5-3.5 ***Collected:*** 7/21/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.608	J	0.382	MDL	5.31	PQL	mg/Kg	U	B
POTASSIUM	2800		12.0	MDL	53.1	PQL	mg/Kg	J	Q
Zirconium	2.20	J	0.489	MDL	5.31	PQL	mg/Kg	U	B

Sample ID: SL-105-SA6-SB-2.5-3.5 ***Collected:*** 7/21/2011 10:59:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.11	J	0.339	MDL	10.6	PQL	mg/Kg	U	B

Sample ID: SL-105-SA6-SB-2.5-3.5 ***Collected:*** 7/21/2011 10:59:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.482	J	0.382	MDL	5.30	PQL	mg/Kg	U	B
POTASSIUM	2650		12.0	MDL	53.0	PQL	mg/Kg	J	Q
Zirconium	2.70	J	0.488	MDL	5.30	PQL	mg/Kg	U	B

Sample ID: SL-228-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 12:39:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.91	J	0.311	MDL	9.71	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory:** LL

EDD Filename: DE206_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.30	J	0.349	MDL	4.85	PQL	mg/Kg	U	B
POTASSIUM	3700		11.0	MDL	48.5	PQL	mg/Kg	J	Q
SODIUM	72.0	J	5.78	MDL	97.1	PQL	mg/Kg	J	Z
Zirconium	2.37	J	0.447	MDL	4.85	PQL	mg/Kg	U	B

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.89	J	0.326	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.73	J	0.366	MDL	5.09	PQL	mg/Kg	U	B
POTASSIUM	3200		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	77.9	J	6.05	MDL	102	PQL	mg/Kg	J	Z
Zirconium	2.62	J	0.468	MDL	5.09	PQL	mg/Kg	U	B

Sample ID: SL-240-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 3:01:00 *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	0.325	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-240-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 3:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.19	J	0.365	MDL	5.07	PQL	mg/Kg	U	B
POTASSIUM	4990		11.5	MDL	50.7	PQL	mg/Kg	J	Q
SODIUM	73.8	J	6.03	MDL	101	PQL	mg/Kg	J	Z
Zirconium	2.47	J	0.467	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:14:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.37	J	0.308	MDL	9.64	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-314-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.91	J	0.347	MDL	4.82	PQL	mg/Kg	U	B
POTASSIUM	4960		10.9	MDL	48.2	PQL	mg/Kg	J	Q
Zirconium	2.92	J	0.443	MDL	4.82	PQL	mg/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.09	J	0.313	MDL	9.79	PQL	mg/Kg	U	B

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.81	J	0.352	MDL	4.90	PQL	mg/Kg	U	B
POTASSIUM	3720		11.1	MDL	49.0	PQL	mg/Kg	J	Q
SODIUM	80.7	J	5.83	MDL	97.9	PQL	mg/Kg	J	Z
Zirconium	2.57	J	0.450	MDL	4.90	PQL	mg/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.02	J	0.316	MDL	9.88	PQL	mg/Kg	U	B

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.97	J	0.356	MDL	4.94	PQL	mg/Kg	U	B
POTASSIUM	3200		11.2	MDL	49.4	PQL	mg/Kg	J	Q
SODIUM	76.7	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
Zirconium	2.27	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *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	0.317	MDL	9.92	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.59	J	0.357	MDL	4.96	PQL	mg/Kg	U	B
POTASSIUM	3880		11.2	MDL	49.6	PQL	mg/Kg	J	Q
SODIUM	80.2	J	5.90	MDL	99.2	PQL	mg/Kg	J	Z
Zirconium	2.68	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0565	MDL	0.390	PQL	mg/Kg	J	Z

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.116	J	0.0721	MDL	0.195	PQL	mg/Kg	J	Z, Q

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0681	J	0.0608	MDL	0.419	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 Laboratory: LL

EDD Filename: DE206_v2. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0775	U	0.0775	MDL	0.210	PQL	mg/Kg	UJ	Q
SILVER	0.0251	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 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	0.0769	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 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	0.0803	U	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q
CADMIUM	0.0584	J	0.0477	MDL	0.108	PQL	mg/Kg	J	Z
SILVER	0.0334	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-9.0-10.0 *Collected:* 7/21/2011 3:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-9.0-10.0 *Collected:* 7/21/2011 3:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q
CADMIUM	0.100	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0435	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 2:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0983	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 2:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory:** LL

EDD Filename: DE206_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-104-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 2:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0314	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0917	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.264		0.0792	MDL	0.214	PQL	mg/Kg	J	Q
CADMIUM	0.0835	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0298	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206		0.0718	MDL	0.194	PQL	mg/Kg	J	Q

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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	0.149	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0788	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: SL-240-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 3:01:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-240-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 3:01:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0965	J	0.0736	MDL	0.199	PQL	mg/Kg	J	Z, Q

Sample ID: SL-314-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 1:14:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0570	MDL	0.393	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 1:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0727	MDL	0.197	PQL	mg/Kg	J	Z, Q

Sample ID: SL-315-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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	0.109	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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	0.115	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q

Sample ID: SL-316-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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	0.107	J	0.0568	MDL	0.391	PQL	mg/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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
ANTIMONY	0.124	J	0.0724	MDL	0.196	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory:** LL

EDD Filename: DE206_v2. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q

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

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q, FD

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-081-SA6-SB-9.0-10.0 *Collected:* 7/21/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-104-SA6-SB-2.5-3.5 **Collected: 7/21/2011 2:40:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-105-SA6-SB-2.5-3.5 **Collected: 7/21/2011 10:59:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-228-SA6-SS-0.0-0.5 **Collected: 7/21/2011 12:39:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.20	U	0.20	MDL	1.0	PQL	mg/Kg	UJ	Q, FD

Sample ID: SL-237-SA6-SS-0.0-0.5 **Collected: 7/21/2011 2:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-240-SA6-SS-0.0-0.5 **Collected: 7/21/2011 3:01:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.20	U	0.20	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-314-SA6-SS-0.0-0.5 **Collected: 7/21/2011 1:14:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.1		0.20	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-315-SA6-SS-0.0-0.5 **Collected: 7/21/2011 1:37:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-316-SA6-SS-0.0-0.5 **Collected: 7/21/2011 2:20:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.4		0.20	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 Laboratory: LL

EDD Filename: DE206_v2. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z, Q

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

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0466	J	0.0070	MDL	0.0995	PQL	mg/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0337	J	0.0071	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0307	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0137	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0370	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0370	J	0.0070	MDL	0.0996	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-240-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 3:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0184	J	0.0066	MDL	0.0942	PQL	mg/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0759	J	0.0066	MDL	0.0941	PQL	mg/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0578	J	0.0069	MDL	0.0976	PQL	mg/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0501	J	0.0070	MDL	0.0988	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	11		0.41	MDL	1.2	PQL	mg/Kg	J	FD
EFH (C8-C11)	0.56	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 3:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.97	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-081-SA6-SB-9.0-10.0 *Collected:* 7/21/2011 3:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.66	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.9		0.41	MDL	1.2	PQL	mg/Kg	J	Q, Q, Q
EFH (C21-C30)	20		0.41	MDL	1.2	PQL	mg/Kg	J	FD
EFH (C8-C11)	0.84	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z, Q, Q

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	3.4	J	2.0	MDL	6.1	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *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'-DDE	10		0.67	MDL	3.5	PQL	ug/Kg	J	FD
4,4'-DDT	14		0.67	MDL	3.5	PQL	ug/Kg	J	FD

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.15	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
ENDRIN KETONE	0.35	U	0.35	MDL	0.35	PQL	ug/Kg	UJ	FD
HEPTACHLOR	0.081	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory:** LL

EDD Filename: DE206_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *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'-DDE	3.9		0.34	MDL	1.7	PQL	ug/Kg	J	FD
4,4'-DDT	7.9		0.34	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *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	0.37	U	0.37	MDL	0.37	PQL	ug/Kg	R	Q
DELTA-BHC	0.12	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z
ENDRIN	0.21	U	0.21	MDL	0.35	PQL	ug/Kg	R	Q
ENDRIN KETONE	0.40		0.067	MDL	0.35	PQL	ug/Kg	J	Q, FD
HEPTACHLOR	0.064	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-240-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 3:01:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.17	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
4,4'-DDE	0.38		0.067	MDL	0.34	PQL	ug/Kg	J	S
4,4'-DDT	0.87		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	3.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	0.16	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
HEPTACHLOR	0.066	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	51	J	13	MDL	69	PQL	ug/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	32	J	16	MDL	69	PQL	ug/Kg	J	Z
ENDOSULFAN SULFATE	2.6	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	3.0	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	4.0	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:20:00 *Analysis Type:* DL2-BASE/NEUTRAL *Dilution:* 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIELDRIN	19	J	13	MDL	69	PQL	ug/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	5.0	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDRIN KETONE	0.33	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	12		0.34	MDL	1.7	PQL	ug/Kg	J	FD
AROCLOR 1260	6.9		0.40	MDL	1.7	PQL	ug/Kg	J	FD
Aroclor 5460	11		1.0	MDL	3.4	PQL	ug/Kg	J	FD

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	2.2	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *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	34		1.7	MDL	8.7	PQL	ug/Kg	J	FD
AROCLOR 1260	2.0	U	2.0	MDL	8.7	PQL	ug/Kg	UJ	FD
Aroclor 5460	22		5.1	MDL	17	PQL	ug/Kg	J	FD

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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
Aroclor 5460	14	J	5.1	MDL	17	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.82	U	0.82	MDL	2.4	PQL	ug/Kg	R	Q

Sample ID: SL-314-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.60	J	0.40	MDL	1.2	PQL	ug/Kg	J	Z
MCPP	240	J	75	MDL	250	PQL	ug/Kg	U	B

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.75	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICHLOROPROP	7.2		0.82	MDL	1.7	PQL	ug/Kg	J	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	40	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 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(G,H,I)PERYLENE	78	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	38	J	18	MDL	370	PQL	ug/Kg	J	Z
CARBAZOLE	22	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZOFURAN	23	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZO(A)ANTHRACENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	37	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	54	J	17	MDL	340	PQL	ug/Kg	J	Z
FLUORANTHENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	61	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	85	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory:** LL

EDD Filename: DE206_v2. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-237-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 2:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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(B)FLUORANTHENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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(B)FLUORANTHENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
Butylbenzylphthalate	20	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-316-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 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(B)FLUORANTHENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 ***Collected:*** 7/21/2011 2:41:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	44	J	17	MDL	340	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP05-SA6-QC-072111 *Collected:* 7/21/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.8	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
ANTHRACENE	5.7	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	56	J	30	MDL	91	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	35	J	30	MDL	91	PQL	ug/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111 *Collected:* 7/21/2011 12:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.75	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z, FD
2-METHYLNAPHTHALENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	0.86	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.71	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD
ANTHRACENE	2.6		0.34	MDL	1.7	PQL	ug/Kg	J	FD
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	FD
DIBENZO(A,H)ANTHRACENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	FD
FLUORENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	4.2	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
NAPHTHALENE	5.0	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 2:40:00 *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	4.6	J	1.8	MDL	9.0	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.8	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-228-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.68	U	0.68	MDL	1.7	PQL	ug/Kg	UJ	FD
2-METHYLNAPHTHALENE	0.82	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	0.79	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, FD
ANTHRACENE	5.8		0.34	MDL	1.7	PQL	ug/Kg	J	Q, FD
Butylbenzylphthalate	8.0	J	6.1	MDL	18	PQL	ug/Kg	J	Z, FD
CHRYSENE	57		0.34	MDL	1.7	PQL	ug/Kg	J	Q, Q
Di-n-butylphthalate	10	J	6.1	MDL	18	PQL	ug/Kg	J	Z, FD
FLUORENE	0.89	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.96	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.35	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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
ACENAPHTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	0.36	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
FLUORENE	0.70	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.9	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	7.2	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z
PHENANTHRENE	8.3	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-316-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 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
ANTHRACENE	1.0	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-318-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 2:41:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.97	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.8	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.0	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-315-SA6-SS-0.0-0.5 *Collected:* 7/21/2011 1:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	750	J	610	MDL	1500	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	320	J	110	MDL	550	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-073-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 10:00:00 *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	13		0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.18	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-081-SA6-SB-4.0-5.0 *Collected:* 7/21/2011 3:10:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.0	J	7.0	MDL	8.4	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	12		0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 2:40:00 *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	10		0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.18	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-105-SA6-SB-2.5-3.5 *Collected:* 7/21/2011 10:59:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.3	J	6.5	MDL	7.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	13		0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE206

Method Blank Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA21B261345	8/10/2011 1:45:00 PM	N-NITROSODIMETHYLAMINE	40.2 ng/Kg	DUP06-SA6-QC-072111 SL-228-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20908CB221021	8/3/2011 10:21:00 AM	TIN	1.80 mg/Kg	DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5
P20908CB221037	8/2/2011 10:37:00 AM	ALUMINUM BORON CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM	7.99 mg/Kg 1.43 mg/Kg 17.3 mg/Kg 4.29 mg/Kg 1.24 mg/Kg 1.48 mg/Kg 0.101 mg/Kg	DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP05-SA6-QC-072111(REA)	TIN	2.90 mg/Kg	2.90U mg/Kg
DUP05-SA6-QC-072111(RES)	BORON	2.55 mg/Kg	2.55U mg/Kg
DUP06-SA6-QC-072111(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
DUP06-SA6-QC-072111(RES)	BORON	3.25 mg/Kg	3.25U mg/Kg
SL-073-SA6-SB-4.0-5.0(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-073-SA6-SB-4.0-5.0(RES)	BORON	0.682 mg/Kg	0.682U mg/Kg
SL-081-SA8-SB-4.0-5.0(REA)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-081-SA6-SB-4.0-5.0(RES)	BORON	0.573 mg/Kg	0.573U mg/Kg
SL-081-SA6-SB-9.0-10.0(REA)	TIN	3.12 mg/Kg	3.12U mg/Kg
SL-081-SA6-SB-9.0-10.0(RES)	BORON	0.561 mg/Kg	0.561U mg/Kg
SL-104-SA6-SB-2.5-3.5(REA)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-104-SA6-SB-2.5-3.5(RES)	BORON	0.608 mg/Kg	0.608U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **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-105-SA6-SB-2.5-3.5(REA)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-105-SA6-SB-2.5-3.5(RES)	BORON	0.482 mg/Kg	0.482U mg/Kg
SL-228-SA6-SS-0.0-0.5(REA)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-228-SA6-SS-0.0-0.5(RES)	BORON	3.30 mg/Kg	3.30U mg/Kg
SL-237-SA6-SS-0.0-0.5(REA)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-237-SA6-SS-0.0-0.5(RES)	BORON	2.73 mg/Kg	2.73U mg/Kg
SL-240-SA6-SS-0.0-0.5(REA)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-240-SA6-SS-0.0-0.5(RES)	BORON	2.19 mg/Kg	2.19U mg/Kg
SL-314-SA6-SS-0.0-0.5(REA)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-314-SA6-SS-0.0-0.5(RES)	BORON	3.91 mg/Kg	3.91U mg/Kg
SL-315-SA6-SS-0.0-0.5(REA)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-315-SA6-SS-0.0-0.5(RES)	BORON	2.81 mg/Kg	2.81U mg/Kg
SL-316-SA6-SS-0.0-0.5(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-316-SA6-SS-0.0-0.5(RES)	BORON	1.97 mg/Kg	1.97U mg/Kg
SL-318-SA6-SS-0.0-0.5(REA)	TIN	2.91 mg/Kg	2.91U mg/Kg
SL-318-SA6-SS-0.0-0.5(RES)	BORON	2.59 mg/Kg	2.59U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20926CB220753A	8/1/2011 7:53:00 AM	COPPER LEAD	0.126 mg/Kg 0.0214 mg/Kg	DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P15156AB242338A	8/4/2011 11:38:00 PM	2,4,5-T MCPP	0.085 ug/Kg 81 ug/Kg	DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-314-SA6-SS-0.0-0.5(RES)	MCPP	240 ug/Kg	250U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB25B211049A	7/26/2011 10:49:00 AM	METHYLENE CHLORIDE	1.7 ug/Kg	SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-073-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	13 ug/Kg	13U ug/Kg
SL-081-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-104-SA6-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	10 ug/Kg	10U ug/Kg
SL-105-SA6-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	13 ug/Kg	13U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_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-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	13 47 -	13 44 60	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	ETHANOL Isopropanol METHANOL	- - -	- - -	48.00-130.00 12.00-149.00 43.00-138.00	53 (20.00) 89 (20.00) 55 (20.00)	ETHANOL Isopropanol 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-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	EFH (C30-C40)	476	318	49.00-123.00	-	EFH (C30-C40)	No Qual, >4x
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	EFH (C15-C20) EFH (C21-C30) EFH (C8-C11)	-66 -268 12	16 -38 0	49.00-123.00 49.00-123.00 49.00-123.00	23 (20.00) 29 (20.00) -	EFH (C15-C20) EFH (C21-C30) EFH (C8-C11)	J(all detects) R(all non-detects) EFH (C21-C30), No Qual, >4x

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	DIELDRIN	-	162	19.00-154.00	-	DIELDRIN	J(all detects)
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	4,4'-DDD 4,4'-DDE 4,4'-DDT ENDRIN	- - 8 0	0 -70 -27 -	16.00-163.00 18.00-161.00 10.00-176.00 11.00-149.00	200 (50.00) - - 200 (50.00)	4,4'-DDD 4,4'-DDE 4,4'-DDT ENDRIN	J(all detects) R(all non-detects) 4,4'-DDE, 4,4'-DDT, No Qual, >4x
SL-228-SA6-SS-0.0-0.5MS (SL-228-SA6-SS-0.0-0.5)	ENDRIN KETONE	17	-	22.00-165.00	-	ENDRIN KETONE	J(all detects) UJ(all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	2,4-D MCPA	- -	- -	17.00-180.00 10.00-213.00	39 (35.00) 127 (50.00)	2,4-D MCPA	J(all detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE206 Laboratory: LL

EDD Filename: DE206_v2. 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-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	DICAMBA DINOSEB	0 0	- 7	10.00-190.00 10.00-46.00	200 (50.00) 200 (35.00)	DICAMBA DINOSEB	J(all detects) R(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-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	ANTIMONY	26	24	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 97%
SL-228-SA6-SS-0.0-0.5MSD (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	ZINC	-	55	75.00-125.00	-	ZINC	No Qual, >4x
SL-228-SA6-SS-0.0-0.5MSD (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	BARIUM	-	67	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_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-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM MANGANESE POTASSIUM TITANIUM	1762 190 271 189 140 306	1447 174 133 - - 269	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 MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Ca, Mg, Mn, Ti, No Qual, >4x
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	IRON	1318	25	75.00-125.00	-	IRON	No Qual, >4x
SL-228-SA6-SS-0.0-0.5MSD (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	PHOSPHORUS	-	62	75.00-125.00	-	PHOSPHORUS	No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	ANTHRACENE	-	117	73.00-115.00	-	ANTHRACENE	J(all detects)
	BENZO(A)ANTHRACENE	-	170	59.00-128.00	-	BENZO(A)ANTHRACENE	
	BENZO(B)FLUORANTHENE	-	219	54.00-163.00	36 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(K)FLUORANTHENE	-	190	57.00-153.00	32 (30.00)	BENZO(K)FLUORANTHENE	
	CHRYSENE	-	246	67.00-123.00	44 (30.00)	CHRYSENE	
	FLUORANTHENE	197	438	51.00-149.00	50 (30.00)	FLUORANTHENE	
	PHENANTHRENE	131	150	62.00-122.00	-	PHENANTHRENE	
	PYRENE	160	317	51.00-131.00	43 (30.00)	PYRENE	

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MS (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MS (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	72	-	75.00-125.00	-	HEXAVALENT CHROMIUM	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-228-SA6-SS-0.0-0.5DUP (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	FLUORIDE	34	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE206 Laboratory: LL

EDD Filename: DE206_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20926CQ220756A (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	ANTIMONY	59	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20908CQ221041 (DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5)	ALUMINUM TITANIUM	137 161	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB25Q211111A LCSB25Y211134A (SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5)	1,1,2-TRICHLORO-1,2,2-TRIFLU 1,1-DICHLOROETHENE	140 124	134 124	61.00-126.00 73.00-123.00	- -	1,1,2-TRICHLORO-1,2,2-TRIFL 1,1-DICHLOROETHENE	J(all detects)

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

Surrogate Outlier Report

Lab Reporting Batch ID: DE206 Laboratory: LL

EDD Filename: DE206_v2. eQAPP Name: CDM_SSFL_110509

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-240-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	130	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-237-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	41	45.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-314-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	0	45.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-316-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	0	45.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-318-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	0	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
SL-318-SA6-SS-0.0 -0.5 .	2,4-Dichlorophenylacetic acid	169	36.00-156.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
MOISTURE	1.9	1.8	5		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
FLUORIDE	2.1	2.9	32	50.00	No Qualifiers Applied
Nitrate-NO3	1.1	1.1	0	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
ALUMINUM	14500	13800	5	50.00	No Qualifiers Applied
BORON	3.30	3.25	2	50.00	
CALCIUM	2910	2800	4	50.00	
IRON	18400	17200	7	50.00	
LITHIUM	21.2	20.4	4	50.00	
MAGNESIUM	4020	3830	5	50.00	
MANGANESE	322	307	5	50.00	
PHOSPHORUS	433	410	5	50.00	
POTASSIUM	3700	3450	7	50.00	
SODIUM	72.0	69.3	4	50.00	
STRONTIUM	24.2	23.1	5	50.00	
TIN	2.91	2.80	4	50.00	
TITANIUM	971	935	4	50.00	
Zirconium	2.37	2.49	5	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
ANTIMONY	0.206	0.188	9	50.00	No Qualifiers Applied
ARSENIC	3.57	3.33	7	50.00	
BARIUM	108	99.6	8	50.00	
BERYLLIUM	0.537	0.498	8	50.00	
CADMIUM	0.559	0.485	14	50.00	
CHROMIUM	19.9	18.1	9	50.00	
COBALT	6.19	5.47	12	50.00	
COPPER	12.5	11.5	8	50.00	
LEAD	21.2	19.7	7	50.00	
MOLYBDENUM	0.592	0.547	8	50.00	
NICKEL	14.9	14.2	5	50.00	
SELENIUM	0.125	0.117	7	50.00	
SILVER	0.512	0.490	4	50.00	
THALLIUM	0.286	0.236	19	50.00	
VANADIUM	31.3	28.7	9	50.00	
ZINC	78.7	76.5	3	50.00	

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
HEXAVALENT CHROMIUM	1.0 U	0.67	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
MERCURY	0.0370	0.0337	9	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
EFH (C15-C20)	4.9	3.4	36	50.00	No Qualifiers Applied
EFH (C30-C40)	36	30	18	50.00	
EFH (C8-C11)	0.84	0.56	40	50.00	
EFH (C21-C30)	20	11	58	50.00	J(all detects)

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
Chlordane	3.7	4.1	10	50.00	No Qualifiers Applied
DELTA-BHC	0.12	0.15	22	50.00	
HEPTACHLOR	0.064	0.081	23	50.00	
4,4'-DDE	3.9	10	88	50.00	J(all detects) UJ(all non-detects)
4,4'-DDT	7.9	14	56	50.00	
ENDRIN KETONE	0.40	0.35 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
AROCLOR 1254	34	12	96	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	8.7 U	6.9	200	50.00	
Aroclor 5460	22	11	67	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg) SL-228-SA6-SS-0.0-0.5	Concentration (ug/Kg) DUP06-SA6-QC-072111	Sample RPD	eQAPP RPD	Flag
2-METHYLNAPHTHALENE	0.82	0.89	8	50.00	No Qualifiers Applied
ACENAPHTHENE	0.79	0.86	8	50.00	
DIBENZO(A,H)ANTHRACENE	1.7	1.2	34	50.00	
FLUORENE	0.89	1.0	12	50.00	
NAPHTHALENE	0.96	1.0	4	50.00	
1-METHYLNAPHTHALENE	1.7 U	0.75	200	50.00	J(all detects) UJ(all non-detects)
ACENAPHTHYLENE	1.3	0.71	59	50.00	
ANTHRACENE	5.8	2.6	76	50.00	
Butylbenzylphthalate	8.0	18 U	200	50.00	
Di-n-butylphthalate	10	18 U	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg) SL-228-SA6-SS-0.0-0.5	Concentration (ug/Kg) DUP06-SA6-QC-072111	Sample RPD	eQAPP RPD	Flag
BIS(2-ETHYLHEXYL)PHTHALATE	54	40	30	50.00	No Qualifiers Applied

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit) SL-228-SA6-SS-0.0-0.5	Concentration (pH unit) DUP06-SA6-QC-072111	Sample RPD	eQAPP RPD	Flag
PH	6.78	7.00	3	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA6-QC-072111	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)
SL-228-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)
SL-315-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.3	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	BORON	J	2.55	5.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.1	100	PQL	mg/Kg	
	TIN	J	2.90	10.0	PQL	mg/Kg	
	Zirconium	J	2.77	5.02	PQL	mg/Kg	
DUP06-SA6-QC-072111	BORON	J	3.25	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.3	98.9	PQL	mg/Kg	
	TIN	J	2.80	9.89	PQL	mg/Kg	
	Zirconium	J	2.49	4.94	PQL	mg/Kg	
SL-073-SA6-SB-4.0-5.0	BORON	J	0.682	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	10.9	PQL	mg/Kg	
	Zirconium	J	3.46	5.45	PQL	mg/Kg	
SL-081-SA6-SB-4.0-5.0	BORON	J	0.573	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	10.4	PQL	mg/Kg	
	Zirconium	J	2.45	5.21	PQL	mg/Kg	
SL-081-SA6-SB-9.0-10.0	BORON	J	0.561	5.41	PQL	mg/Kg	J (all detects)
	TIN	J	3.12	10.8	PQL	mg/Kg	
	Zirconium	J	1.91	5.41	PQL	mg/Kg	
SL-104-SA6-SB-2.5-3.5	BORON	J	0.608	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.76	10.6	PQL	mg/Kg	
	Zirconium	J	2.20	5.31	PQL	mg/Kg	
SL-105-SA6-SB-2.5-3.5	BORON	J	0.482	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	10.6	PQL	mg/Kg	
	Zirconium	J	2.70	5.30	PQL	mg/Kg	
SL-228-SA6-SS-0.0-0.5	BORON	J	3.30	4.85	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.0	97.1	PQL	mg/Kg	
	TIN	J	2.91	9.71	PQL	mg/Kg	
	Zirconium	J	2.37	4.85	PQL	mg/Kg	
SL-237-SA6-SS-0.0-0.5	BORON	J	2.73	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	77.9	102	PQL	mg/Kg	
	TIN	J	2.89	10.2	PQL	mg/Kg	
	Zirconium	J	2.62	5.09	PQL	mg/Kg	
SL-240-SA6-SS-0.0-0.5	BORON	J	2.19	5.07	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.8	101	PQL	mg/Kg	
	TIN	J	2.88	10.1	PQL	mg/Kg	
	Zirconium	J	2.47	5.07	PQL	mg/Kg	
SL-314-SA6-SS-0.0-0.5	BORON	J	3.91	4.82	PQL	mg/Kg	J (all detects)
	TIN	J	3.37	9.64	PQL	mg/Kg	
	Zirconium	J	2.92	4.82	PQL	mg/Kg	
SL-315-SA6-SS-0.0-0.5	BORON	J	2.81	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.7	97.9	PQL	mg/Kg	
	TIN	J	3.09	9.79	PQL	mg/Kg	
	Zirconium	J	2.57	4.90	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-316-SA6-SS-0.0-0.5	BORON	J	1.97	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	76.7	98.8	PQL	mg/Kg	
	TIN	J	3.02	9.88	PQL	mg/Kg	
	Zirconium	J	2.27	4.94	PQL	mg/Kg	
SL-318-SA6-SS-0.0-0.5	BORON	J	2.59	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.2	99.2	PQL	mg/Kg	
	TIN	J	2.91	9.92	PQL	mg/Kg	
	Zirconium	J	2.68	4.96	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	ANTIMONY	J	0.116	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.390	PQL	mg/Kg	
DUP06-SA6-QC-072111	ANTIMONY	J	0.188	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.403	PQL	mg/Kg	
SL-073-SA6-SB-4.0-5.0	SELENIUM	J	0.0681	0.419	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0251	0.105	PQL	mg/Kg	
SL-081-SA6-SB-4.0-5.0	CADMIUM	J	0.0584	0.108	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0769	0.434	PQL	mg/Kg	
	SILVER	J	0.0334	0.108	PQL	mg/Kg	
SL-081-SA6-SB-9.0-10.0	CADMIUM	J	0.100	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.429	PQL	mg/Kg	
	SILVER	J	0.0435	0.107	PQL	mg/Kg	
SL-104-SA6-SB-2.5-3.5	SELENIUM	J	0.0983	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0314	0.104	PQL	mg/Kg	
SL-105-SA6-SB-2.5-3.5	CADMIUM	J	0.0835	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0917	0.428	PQL	mg/Kg	
	SILVER	J	0.0298	0.107	PQL	mg/Kg	
SL-228-SA6-SS-0.0-0.5	SELENIUM	J	0.125	0.388	PQL	mg/Kg	J (all detects)
SL-237-SA6-SS-0.0-0.5	ANTIMONY	J	0.0788	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.149	0.395	PQL	mg/Kg	
SL-240-SA6-SS-0.0-0.5	ANTIMONY	J	0.0965	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.398	PQL	mg/Kg	
SL-314-SA6-SS-0.0-0.5	ANTIMONY	J	0.104	0.197	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.139	0.393	PQL	mg/Kg	
SL-315-SA6-SS-0.0-0.5	ANTIMONY	J	0.115	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.403	PQL	mg/Kg	
SL-316-SA6-SS-0.0-0.5	ANTIMONY	J	0.124	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.107	0.391	PQL	mg/Kg	
SL-318-SA6-SS-0.0-0.5	ANTIMONY	J	0.145	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.167	0.401	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	HEXAVALENT CHROMIUM	J	0.46	1.0	PQL	mg/Kg	J (all detects)
DUP06-SA6-QC-072111	HEXAVALENT CHROMIUM	J	0.67	1.0	PQL	mg/Kg	J (all detects)
SL-073-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-237-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)
SL-315-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)
SL-318-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.47	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	MERCURY	J	0.0466	0.0995	PQL	mg/Kg	J (all detects)
DUP06-SA6-QC-072111	MERCURY	J	0.0337	0.102	PQL	mg/Kg	J (all detects)
SL-104-SA6-SB-2.5-3.5	MERCURY	J	0.0307	0.101	PQL	mg/Kg	J (all detects)
SL-105-SA6-SB-2.5-3.5	MERCURY	J	0.0137	0.106	PQL	mg/Kg	J (all detects)
SL-228-SA6-SS-0.0-0.5	MERCURY	J	0.0370	0.101	PQL	mg/Kg	J (all detects)
SL-237-SA6-SS-0.0-0.5	MERCURY	J	0.0370	0.0996	PQL	mg/Kg	J (all detects)
SL-240-SA6-SS-0.0-0.5	MERCURY	J	0.0184	0.0942	PQL	mg/Kg	J (all detects)
SL-314-SA6-SS-0.0-0.5	MERCURY	J	0.0759	0.0941	PQL	mg/Kg	J (all detects)
SL-316-SA6-SS-0.0-0.5	MERCURY	J	0.0578	0.0976	PQL	mg/Kg	J (all detects)
SL-318-SA6-SS-0.0-0.5	MERCURY	J	0.0501	0.0988	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA6-SB-2.5-3.5	METHANOL	J	320	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA6-QC-072111	EFH (C8-C11)	J	0.56	1.2	PQL	mg/Kg	J (all detects)
SL-081-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.97	1.3	PQL	mg/Kg	J (all detects)
SL-081-SA6-SB-9.0-10.0	EFH (C30-C40)	J	0.66	1.3	PQL	mg/Kg	J (all detects)
SL-228-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.84	1.2	PQL	mg/Kg	J (all detects)
SL-315-SA6-SS-0.0-0.5	EFH (C15-C20)	J	3.4	6.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP06-SA6-QC-072111	DELTA-BHC	J	0.15	0.17	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.081	0.17	PQL	ug/Kg	
SL-228-SA6-SS-0.0-0.5	DELTA-BHC	J	0.12	0.17	PQL	ug/Kg	J (all detects)
	HEPTACHLOR	J	0.064	0.17	PQL	ug/Kg	
SL-240-SA6-SS-0.0-0.5	4,4'-DDD	J	0.17	0.34	PQL	ug/Kg	J (all detects)
	Chlordane	J	3.3	3.4	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	0.16	0.34	PQL	ug/Kg	
	HEPTACHLOR	J	0.066	0.17	PQL	ug/Kg	
SL-315-SA6-SS-0.0-0.5	Chlordane	J	32	69	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	51	69	PQL	ug/Kg	
	ENDOSULFAN SULFATE	J	2.6	6.9	PQL	ug/Kg	
	ENDRIN ALDEHYDE	J	3.0	6.9	PQL	ug/Kg	
SL-316-SA6-SS-0.0-0.5	4,4'-DDD	J	4.0	6.9	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	19	69	PQL	ug/Kg	
SL-318-SA6-SS-0.0-0.5	4,4'-DDD	J	5.0	6.9	PQL	ug/Kg	J (all detects)
	ENDRIN KETONE	J	0.33	0.35	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-105-SA6-SB-2.5-3.5	AROCLOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.2	3.6	PQL	ug/Kg	
SL-237-SA6-SS-0.0-0.5	Aroclor 5460	J	14	17	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-314-SA6-SS-0.0-0.5	DICAMBA	J	0.60	1.2	PQL	ug/Kg	J (all detects)
	MCPP	J	240	250	PQL	ug/Kg	
SL-315-SA6-SS-0.0-0.5	DICAMBA	J	0.75	1.2	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA6-SB-4.0-5.0	TOLUENE	J	0.18	4.4	PQL	ug/Kg	J (all detects)
SL-081-SA6-SB-4.0-5.0	ACETONE	J	8.0	8.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.2	PQL	ug/Kg	
SL-104-SA6-SB-2.5-3.5	TOLUENE	J	0.18	4.2	PQL	ug/Kg	J (all detects)
SL-105-SA6-SB-2.5-3.5	ACETONE	J	7.3	7.8	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	3.9	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	BENZO(G,H,I)PERYLENE	J	21	170	PQL	ug/Kg	J (all detects)
DUP06-SA6-QC-072111	BIS(2-ETHYLHEXYL)PHTHALATE	J	40	340	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	33	170	PQL	ug/Kg	
SL-073-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	78	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	370	PQL	ug/Kg	
	CARBAZOLE	J	22	180	PQL	ug/Kg	
	DIBENZOFURAN	J	23	180	PQL	ug/Kg	
SL-228-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	17	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	19	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	37	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	22	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	54	340	PQL	ug/Kg	
	FLUORANTHENE	J	94	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	17	170	PQL	ug/Kg	
	PHENANTHRENE	J	61	170	PQL	ug/Kg	
	PYRENE	J	85	170	PQL	ug/Kg	
SL-237-SA6-SS-0.0-0.5	CHRYSENE	J	18	170	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	19	170	PQL	ug/Kg	
	PYRENE	J	18	170	PQL	ug/Kg	
SL-314-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	21	170	PQL	ug/Kg	J (all detects)
SL-315-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	20	170	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	20	170	PQL	ug/Kg	
	CHRYSENE	J	27	170	PQL	ug/Kg	
	FLUORANTHENE	J	32	170	PQL	ug/Kg	
	PYRENE	J	32	170	PQL	ug/Kg	
SL-316-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	20	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	340	PQL	ug/Kg	
	CHRYSENE	J	21	170	PQL	ug/Kg	
	FLUORANTHENE	J	27	170	PQL	ug/Kg	
	PYRENE	J	27	170	PQL	ug/Kg	
SL-318-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	44	340	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	ACENAPHTHYLENE	J	1.8	8.4	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	5.7	8.4	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	91	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	3.4	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	35	91	PQL	ug/Kg	
DUP06-SA6-QC-072111	1-METHYLNAPHTHALENE	J	0.75	1.7	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.89	1.7	PQL	ug/Kg	
	ACENAPHTHENE	J	0.86	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.71	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	FLUORENE	J	1.0	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	1.0	1.7	PQL	ug/Kg	
SL-073-SA6-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	4.2	9.2	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	5.0	9.2	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE206 **Laboratory: LL**

EDD Filename: DE206_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA6-SB-2.5-3.5	ANTHRACENE	J	4.6	9.0	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	3.8	9.0	PQL	ug/Kg	
SL-228-SA6-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.82	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	0.79	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.3	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.0	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	10	18	PQL	ug/Kg	
	FLUORENE	J	0.89	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.96	1.7	PQL	ug/Kg	
SL-237-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.35	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	
SL-314-SA6-SS-0.0-0.5	ACENAPHTHENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	0.36	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	FLUORENE	J	0.70	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.84	1.7	PQL	ug/Kg	
SL-315-SA6-SS-0.0-0.5	ANTHRACENE	J	2.2	8.5	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	4.9	8.5	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	7.2	8.5	PQL	ug/Kg	
	PHENANTHRENE	J	8.3	8.5	PQL	ug/Kg	
SL-316-SA6-SS-0.0-0.5	ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-318-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.97	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	8.8	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	8.0	18	PQL	ug/Kg	

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-315-SA6-SS-0.0-0.5	FORMALDEHYDE	J	750	1500	PQL	ug/Kg	J (all detects)

LDC #: 26407F4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE206 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-228-SA6-SS-0.0-0.5	11	SL-081-SA6-SB-4.0-5.0	21		31	
2	SL-237-SA6-SS-0.0-0.5	12	SL-081-SA6-SB-9.0-10.0	22		32	
3	SL-240-SA6-SS-0.0-0.5	13	SL-104-SA6-SB-2.5-3.5	23		33	
4	SL-314-SA6-SS-0.0-0.5	14	SL-105-SA6-SB-2.5-3.5	24		34	
5	SL-315-SA6-SS-0.0-0.5	15	SL-228-SA6-SS-0.0-0.5MS	25		35	
6	SL-316-SA6-SS-0.0-0.5	16	SL-228-SA6-SS-0.0-0.5MSD	26		36	
7	SL-318-SA6-SS-0.0-0.5	17	SL-228-SA6-SS-0.0-0.5DUP	27		37	
8	DUP06-SA6-QC-072111	18		28		38	
9	DUP05-SA6-QC-072111	19		29		39	
10	SL-073-SA6-SB-4.0-5.0	20		30		40	

Notes: _____

LDC #: 26407F4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 100x x MS:2xdil

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 2

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	2													
Zr	6.5	3.25	2.6													

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 13, 14

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	13	14											
Zr	6.7	3.35	2.4	2.2	2.7											

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 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE206
Matrix: SOIL Level (low/med): LOW

>4X

Background Lab Sample ID: 6353026BKG Matrix Spike Lab Sample ID: 6353027MS Matrix Spike Duplicate Lab Sample ID: 6353028MSD
% Solids for Sample: 98.1
Batch Id(s): P20908C, P20926C, P20911D

Sb: J/UJ/A (PS=97%)

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		14508.4841		17996.8578		17429.6020		197.9355	201.8550	MG/KG	1762		1447		3			20	P
Antimony	121	0.2064		0.5186		0.4883		1.1876	1.1876	MG/KG	26	N	24	N	6		75 - 125	20	MS
Arsenic	75	3.5707		5.3304		5.1265		1.9794	1.9794	MG/KG	89		79		4		75 - 125	20	MS
Barium	137	107.7035		117.0987		114.3474		9.8968	9.8968	MG/KG	95		67		2			20	MS
Beryllium	9	0.5374		1.2541		1.2424		0.7917	0.7917	MG/KG	91		89		1		75 - 125	20	MS
Boron		3.2960	B	191.7629		200.7802		197.9355	201.8550	MG/KG	95		98		5		84 - 115	20	P
Cadmium	111	0.5586		1.4208		1.3798		0.9897	0.9897	MG/KG	87		83		3		75 - 125	20	MS
Calcium		2909.6646		3661.2897		3613.8997		395.8711	403.7101	MG/KG	190		174		1			20	P
Chromium	52	19.9019		28.2256		27.6516		9.8968	9.8968	MG/KG	84		78		2		75 - 125	20	MS
Cobalt	59	6.1939		52.7498		52.4925		49.4839	49.4839	MG/KG	94		94		0		75 - 125	20	MS
Copper	63	12.5081		21.9708		21.6541		9.8968	9.8968	MG/KG	96		92		1		75 - 125	20	MS
Iron		18353.0372		19657.3172		18378.5822		98.9678	100.9275	MG/KG	1318		25		7			20	P
Lead	208	21.2029		23.6533		23.5741		2.9690	2.9690	MG/KG	83		80		0			20	MS
Lithium		21.2087		120.5180		122.9984		98.9678	100.9275	MG/KG	100		101		2		82 - 114	20	P
Magnesium		4022.1834		4558.3940		4290.0243		197.9355	201.8550	MG/KG	271		133		6			20	P
Manganese		321.6077		415.2737		374.9508		49.4839	50.4638	MG/KG	189		106		10			20	P
Mercury		0.0370	B	0.2097		0.2037		0.1651	0.1670	MG/KG	105		100		3		65 - 135	20	CV
Molybdenum	98	0.5920		10.0927		9.9581		9.8968	9.8968	MG/KG	96		95		1		75 - 125	20	MS
Nickel	60	14.8847		25.0388		24.5836		9.8968	9.8968	MG/KG	103		98		2		75 - 125	20	MS
Phosphorus		432.8372		534.7308		494.9153		98.9678	100.9275	MG/KG	103		62		8			20	P
Potassium		3696.0973		5084.7372		4855.5273		989.6777	1009.2752	MG/KG	140	N	115		5		75 - 125	20	P
Selenium	78	0.1254	B	2.0546		2.0407		1.9794	1.9794	MG/KG	97		97		1		75 - 125	20	MS
Silver	107	0.5118		10.5876		10.3698		9.8968	9.8968	MG/KG	102		100		2		75 - 125	20	MS
Sodium		72.0373	B	1022.2984		1054.8218		989.6777	1009.2752	MG/KG	96		97		3		75 - 125	20	P
Strontium		24.1872		121.0010		124.0208		98.9678	100.9275	MG/KG	98		99		2		75 - 115	20	P
Thallium	203	0.2864		0.6207		0.6498		0.3959	0.3959	MG/KG	84		92		5		75 - 125	20	MS
Tin		2.9135	B	365.6899		375.6189		395.8711	403.7101	MG/KG	92		92		3		80 - 110	20	P
Titanium		970.9936		1274.0556		1242.7670		98.9678	100.9275	MG/KG	306		269		2			20	P
Vanadium	51	31.3189		39.7455		38.7162		9.8968	9.8968	MG/KG	85		75		3		75 - 125	20	MS
Zinc	66	78.6952		86.6958		84.1226		9.8968	9.8968	MG/KG	81		55		3			20	MS
Zirconium		2.3708	B	90.3348		94.4783		98.9678	100.9275	MG/KG	89		91		4		75 - 125	20	P

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE206
Matrix: SOIL Level (low/med): LOW

<5x

Background Lab Sample ID: 6353026BKG
% Solids for Duplicate: 98.1
Batch ID(s): P20908C, P20926C, P20911D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6353029DUP
% Solids for Sample: 98.1

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			14508.4841		14706.1909		1		P
Antimony	121	0.2	0.2064		0.2095		1		MS
Arsenic	75		3.5707		3.5244		1		MS
Barium	137		107.7035		103.5315		4		MS
Beryllium	9		0.5374		0.5167		4		MS
Boron			3.2960	B	3.3387	B	1		P
Cadmium	111		0.5586		0.4947		12		MS
Calcium			2909.6646		3272.4811		12		P
Chromium	52		19.9019		18.6272		7		MS
Cobalt	59		6.1939		5.5732		11		MS
Copper	63		12.5081		12.6361		1		MS
Iron			18353.0372		19538.7319		6		P
Lead	208		21.2029		21.4976		1		MS
Lithium			21.2087		21.8044		3		P
Magnesium			4022.1834		4311.9428		7		P
Manganese			321.6077		348.0082		8		P
Mercury			0.0370	B	0.0341	B	8		CV
Molybdenum	98		0.5920		0.5947		0		MS
Nickel	60		14.8847		14.7536		1		MS
Phosphorus			432.8372		430.7567		0		P
Potassium			3696.0973		3737.9205		1		P
Selenium	78		0.1254	B	0.1438	B	14		MS
Silver	107		0.5118		0.5499		7		MS
Sodium			72.0373	B	72.9080	B	1		P
Strontium			24.1872		25.2763		4		P
Thallium	203	0.1	0.2864		0.2541		12		MS
Tin			2.9135	B	2.7271	B	7		P
Titanium			970.9936		988.4065		2		P
Vanadium	51		31.3189		30.2984		3		MS
Zinc	66		78.6952		76.9673		2		MS
Zirconium			2.3708	B	2.5868	B	9		P

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

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

SAMPLE DELIVERY GROUP

DE207

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jul-2011	TB-072211	6354167	TB	5030B	8015M	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3060A	7199	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3546	1625C	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8015B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8015M	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8081A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8082	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8151A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8270C	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	3550B	8270C SIM	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	8330	8330A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	300.0	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	314.0	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	7471A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	8015B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	8015M	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	8315A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354150	N	METHOD	9012B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D220319	DUP	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D220742	DUP	METHOD	7471A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D221039A	DUP	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D221039B	DUP	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D221039C	DUP	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D221039D	DUP	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D221713	DUP	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5DUP	P354150D271945A	DUP	METHOD	300.0	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M220328	MSD	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M220745	MSD	METHOD	7471A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M221045A	MSD	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M221045B	MSD	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M221045C	MSD	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M221045D	MSD	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M221720	MSD	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M240133A	MSD	3550B	8081A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M241849A	MSD	3550B	8082	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M261608	MSD	3550B	8270C	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M262342	MSD	3550B	8270C SIM	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M321109A	MSD	3550B	8015M	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MSD	P354150M322323A	MSD	METHOD	8015B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R220323	MS	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R220744	MS	METHOD	7471A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R221042A	MS	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R221042B	MS	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R221042C	MS	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R221042D	MS	3050B	6020	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R221717	MS	3050B	6010B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R240118A	MS	3550B	8081A	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R241831A	MS	3550B	8082	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R261543	MS	3550B	8270C	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R262309	MS	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
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R271959A	MS	METHOD	300.0	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R321044A	MS	3550B	8015M	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5MS	P354150R322309A	MS	METHOD	8015B	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3050B	6010B	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3050B	6020	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3060A	7199	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3550B	8015B	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3550B	8015M	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3550B	8082	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3550B	8270C	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	3550B	8270C SIM	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	5035	8015M	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	METHOD	300.0	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	METHOD	314.0	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	METHOD	6850	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	METHOD	7471A	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	METHOD	8015B	III
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354161	N	METHOD	8015M	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3050B	6010B	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3050B	6020	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3060A	7199	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3550B	8015B	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3550B	8015M	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3550B	8082	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	3550B	8270C	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	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
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	5035	8015M	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	METHOD	300.0	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	METHOD	314.0	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	METHOD	6850	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	METHOD	7471A	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	METHOD	8015B	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354162	N	METHOD	8015M	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0DUP	P354162D271845B	DUP	METHOD	314.0	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0MS	P354162R271931B	MS	METHOD	314.0	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3050B	6010B	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3050B	6020	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3060A	7199	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3550B	8081A	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3550B	8082	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3550B	8151A	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3550B	8270C	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	3550B	8270C SIM	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	METHOD	300.0	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	METHOD	314.0	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	METHOD	6850	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354151	N	METHOD	7471A	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5DUP	P354151D271613A	DUP	3060A	7199	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5MS	P354151R271022A	MS	3060A	7199	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3050B	6010B	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3050B	6020	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	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-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3550B	8015B	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3550B	8015M	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3550B	8082	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3550B	8270C	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	3550B	8270C SIM	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	5035	8015M	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	METHOD	300.0	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	METHOD	314.0	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	METHOD	6850	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	METHOD	7471A	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	METHOD	8015B	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354159	N	METHOD	8015M	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3050B	6010B	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3050B	6020	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3060A	7199	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3550B	8015B	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3550B	8015M	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3550B	8082	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3550B	8270C	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	3550B	8270C SIM	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	5035	8015M	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	METHOD	300.0	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	METHOD	314.0	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	METHOD	6850	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	METHOD	7471A	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	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
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354160	N	METHOD	8015M	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0DUP	P354160D272304B	DUP	METHOD	300.0	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0MS	P354160R272318B	MS	METHOD	300.0	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3050B	6010B	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3050B	6020	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3060A	7199	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3550B	8081A	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3550B	8082	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3550B	8151A	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3550B	8270C	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	3550B	8270C SIM	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	METHOD	300.0	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	METHOD	314.0	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354152	N	METHOD	7471A	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3050B	6010B	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3050B	6020	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3060A	7199	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3550B	8015B	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3550B	8015M	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3550B	8082	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3550B	8270C	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	3550B	8270C SIM	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	5035	8015M	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	METHOD	300.0	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	METHOD	314.0	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	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
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	METHOD	7471A	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	METHOD	8015B	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354163	N	METHOD	8015M	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3050B	6010B	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3050B	6020	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3060A	7199	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3550B	8015B	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3550B	8015M	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3550B	8082	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3550B	8270C	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	3550B	8270C SIM	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	5035	8015M	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	METHOD	300.0	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	METHOD	314.0	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	METHOD	6850	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	METHOD	7471A	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	METHOD	8015B	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354164	N	METHOD	8015M	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3050B	6010B	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3050B	6020	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3060A	7199	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3550B	8081A	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3550B	8082	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3550B	8151A	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	3550B	8270C	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	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
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	METHOD	300.0	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	METHOD	314.0	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354157	N	METHOD	7471A	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3050B	6010B	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3050B	6020	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3060A	7199	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3550B	8081A	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3550B	8082	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3550B	8151A	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3550B	8270C	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	3550B	8270C SIM	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	METHOD	300.0	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	METHOD	314.0	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354156	N	METHOD	7471A	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3050B	6010B	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3050B	6020	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3060A	7199	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3550B	8081A	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3550B	8082	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3550B	8151A	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3550B	8270C	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	3550B	8270C SIM	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	METHOD	300.0	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	METHOD	314.0	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354158	N	METHOD	7471A	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	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-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3050B	6020	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3060A	7199	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3550B	8081A	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3550B	8082	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3550B	8151A	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3550B	8270C	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	3550B	8270C SIM	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	METHOD	300.0	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	METHOD	314.0	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	METHOD	6850	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354154	N	METHOD	7471A	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5DUP	P354154D271345A	DUP	METHOD	314.0	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5MS	P354154R271408A	MS	METHOD	314.0	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3050B	6010B	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3050B	6020	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3060A	7199	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3550B	8015B	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3550B	8015M	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3550B	8082	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3550B	8270C	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	3550B	8270C SIM	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	5035	8015M	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	METHOD	300.0	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	METHOD	314.0	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	METHOD	6850	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	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
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	METHOD	8015B	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354165	N	METHOD	8015M	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3050B	6010B	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3050B	6020	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3060A	7199	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3550B	8081A	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3550B	8082	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3550B	8151A	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3550B	8270C	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	3550B	8270C SIM	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	METHOD	300.0	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	METHOD	314.0	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354155	N	METHOD	7471A	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3050B	6010B	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3050B	6020	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3060A	7199	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3550B	8015B	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3550B	8015M	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3550B	8082	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3550B	8270C	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	3550B	8270C SIM	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	5035	8015M	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	METHOD	300.0	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	METHOD	314.0	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	METHOD	6850	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	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
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	METHOD	8015B	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354166	N	METHOD	8015M	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3050B	6010B	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3050B	6020	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3060A	7199	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3550B	8081A	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3550B	8082	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3550B	8151A	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3550B	8270C	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	3550B	8270C SIM	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	METHOD	300.0	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	N	METHOD	314.0	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354153	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: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-075-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 3:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.06	J	0.390	MDL	5.41	PQL	mg/Kg	U	B

Sample ID: SL-075-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	477		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.52	J	0.346	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	3.22	J	0.498	MDL	5.41	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.854	J	0.385	MDL	5.35	PQL	mg/Kg	U	B

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	454		0.374	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.38	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 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	1.73	J	0.374	MDL	5.20	PQL	mg/Kg	U	B

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	324		0.364	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.33	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.38	J	0.478	MDL	5.20	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 10:10:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.35	J	0.382	MDL	5.30	PQL	mg/Kg	U	B

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	406		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.78	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.24	J	0.488	MDL	5.30	PQL	mg/Kg	U	B

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.46	J	0.377	MDL	5.24	PQL	mg/Kg	U	B

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	381		0.367	MDL	10.5	PQL	mg/Kg	J	Q
TIN	2.67	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.00	J	0.482	MDL	5.24	PQL	mg/Kg	U	B

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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
BORON	1.41	J	0.391	MDL	5.43	PQL	mg/Kg	U	B

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	368		0.380	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.46	J	0.347	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.04	J	0.499	MDL	5.43	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-124-SA6-SB-12.5-13.5 **Collected:** 7/22/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	347		0.375	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.44	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.79	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA6-SB-4.0-5.0 **Collected:** 7/22/2011 11:45:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.56	J	0.383	MDL	5.32	PQL	mg/Kg	U	B

Sample ID: SL-124-SA6-SB-4.0-5.0 **Collected:** 7/22/2011 11:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	458		0.372	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.89	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.56	J	0.489	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA6-SS-0.0-0.5 **Collected:** 7/22/2011 8:09:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.63	J	0.356	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-233-SA6-SS-0.0-0.5 **Collected:** 7/22/2011 8:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	345		0.346	MDL	9.89	PQL	mg/Kg	J	Q
SODIUM	61.1	J	5.88	MDL	98.9	PQL	mg/Kg	J	Z
TIN	2.45	J	0.316	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.455	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-238-SA6-SS-0.0-0.5 **Collected:** 7/22/2011 8:56:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.32	J	0.360	MDL	5.01	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	423		0.350	MDL	10.0	PQL	mg/Kg	J	Q
SODIUM	80.2	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.89	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.461	MDL	5.01	PQL	mg/Kg	U	B

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
BORON	3.23	J	0.363	MDL	5.04	PQL	mg/Kg	U	B

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	457		0.353	MDL	10.1	PQL	mg/Kg	J	Q
TIN	2.07	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.17		0.353	MDL	4.90	PQL	mg/Kg	U	B

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* RES *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	523		1.71	MDL	49.0	PQL	mg/Kg	J	Q
SODIUM	182	J	29.1	MDL	490	PQL	mg/Kg	J	Z
TIN	3.18	J	1.57	MDL	49.0	PQL	mg/Kg	U	B
Zirconium	6.60	J	2.25	MDL	24.5	PQL	mg/Kg	J	Z

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.36	J	0.355	MDL	4.94	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	424		0.346	MDL	9.87	PQL	mg/Kg	J	Q
SODIUM	67.3	J	5.88	MDL	98.7	PQL	mg/Kg	J	Z
TIN	2.72	J	0.316	MDL	9.87	PQL	mg/Kg	U	B
Zirconium	2.90	J	0.454	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.33	J	0.356	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	474		0.346	MDL	9.89	PQL	mg/Kg	J	Q
SODIUM	68.2	J	5.88	MDL	98.9	PQL	mg/Kg	J	Z
TIN	2.79	J	0.316	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	2.89	J	0.455	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.22	J	0.357	MDL	4.96	PQL	mg/Kg	U	B

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	404		0.347	MDL	9.92	PQL	mg/Kg	J	Q
SODIUM	69.8	J	5.90	MDL	99.2	PQL	mg/Kg	J	Z
TIN	2.64	J	0.318	MDL	9.92	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.456	MDL	4.96	PQL	mg/Kg	U	B

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.97		0.364	MDL	5.06	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	321		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	74.0	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.33	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.21	J	0.466	MDL	5.06	PQL	mg/Kg	U	B

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.353	MDL	4.90	PQL	mg/Kg	U	B

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	549		0.343	MDL	9.80	PQL	mg/Kg	J	Q
SODIUM	73.1	J	5.83	MDL	98.0	PQL	mg/Kg	J	Z
TIN	2.79	J	0.314	MDL	9.80	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-075-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.164	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 3:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.682		0.0546	MDL	0.109	PQL	mg/Kg	J	E

Sample ID: SL-075-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 3:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	119		0.116	MDL	0.437	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-075-SA6-SB-4.0-5.0 ***Collected:*** 7/22/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.173	J	0.0809	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	6.14		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.712		0.0175	MDL	0.109	PQL	mg/Kg	J	E
CHROMIUM	25.9		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E, A
COBALT	8.84		0.0219	MDL	0.109	PQL	mg/Kg	J	E, A
COPPER	15.1		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, E, A
LEAD	9.04		0.0111	MDL	0.219	PQL	mg/Kg	J	E, A
NICKEL	16.4		0.109	MDL	0.437	PQL	mg/Kg	J	E, A
SILVER	0.0553	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	55.0		0.0240	MDL	0.109	PQL	mg/Kg	J	Q, Q, E, A
ZINC	74.8		0.612	MDL	3.28	PQL	mg/Kg	J	E, A

Sample ID: SL-075-SA6-SB-9.0-10.0 ***Collected:*** 7/22/2011 3:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0608	MDL	0.419	PQL	mg/Kg	J	Z

Sample ID: SL-075-SA6-SB-9.0-10.0 ***Collected:*** 7/22/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.727		0.0524	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-075-SA6-SB-9.0-10.0 ***Collected:*** 7/22/2011 3:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.5		0.111	MDL	0.419	PQL	mg/Kg	J	E, A

Sample ID: SL-075-SA6-SB-9.0-10.0 ***Collected:*** 7/22/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	6.59		0.0839	MDL	0.419	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.505		0.0168	MDL	0.105	PQL	mg/Kg	J	E
CHROMIUM	19.6		0.126	MDL	0.419	PQL	mg/Kg	J	Q, E, A
COBALT	7.84		0.0210	MDL	0.105	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.9		0.0839	MDL	0.419	PQL	mg/Kg	J	Q, E, A
LEAD	6.46		0.0107	MDL	0.210	PQL	mg/Kg	J	E, A
NICKEL	11.9		0.105	MDL	0.419	PQL	mg/Kg	J	E, A
SILVER	0.0374	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	38.7		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, Q, E, A
ZINC	57.8		0.587	MDL	3.15	PQL	mg/Kg	J	E, A

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0885	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.591		0.0510	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	82.9		0.108	MDL	0.408	PQL	mg/Kg	J	E, A

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	5.48		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.629		0.0163	MDL	0.102	PQL	mg/Kg	J	E
CADMIUM	0.0569	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z
CHROMIUM	20.0		0.122	MDL	0.408	PQL	mg/Kg	J	Q, E, A
COBALT	5.97		0.0204	MDL	0.102	PQL	mg/Kg	J	E, A
COPPER	9.26		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E, A
LEAD	5.24		0.0104	MDL	0.204	PQL	mg/Kg	J	E, A
NICKEL	12.6		0.102	MDL	0.408	PQL	mg/Kg	J	E, A
SILVER	0.0359	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.5		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, Q, E, A
ZINC	61.4		0.571	MDL	3.06	PQL	mg/Kg	J	E, A

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 10:10:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0858	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 10:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.570		0.0535	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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	89.4		0.113	MDL	0.428	PQL	mg/Kg	J	E, A

Sample ID: SL-082-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.166	J	0.0792	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	5.09		0.0856	MDL	0.428	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.677		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.0890	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	21.9		0.128	MDL	0.428	PQL	mg/Kg	J	Q, E, A
COBALT	6.41		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	9.77		0.0856	MDL	0.428	PQL	mg/Kg	J	Q, E, A
LEAD	4.98		0.0109	MDL	0.214	PQL	mg/Kg	J	E, A
NICKEL	14.0		0.107	MDL	0.428	PQL	mg/Kg	J	E, A
SILVER	0.0232	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	42.6		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, Q, E, A
ZINC	72.3		0.599	MDL	3.21	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.612		0.0529	MDL	0.106	PQL	mg/Kg	J	E

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.3		0.112	MDL	0.424	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	5.62		0.0847	MDL	0.424	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.709		0.0169	MDL	0.106	PQL	mg/Kg	J	E
CHROMIUM	22.0		0.127	MDL	0.424	PQL	mg/Kg	J	Q, E, A
COBALT	7.85		0.0212	MDL	0.106	PQL	mg/Kg	J	E, A
COPPER	10.5		0.0847	MDL	0.424	PQL	mg/Kg	J	Q, E, A
LEAD	5.97		0.0108	MDL	0.212	PQL	mg/Kg	J	E, A
NICKEL	15.6		0.106	MDL	0.424	PQL	mg/Kg	J	E, A
SILVER	0.0287	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	43.0		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, Q, E, A
ZINC	72.6		0.593	MDL	3.18	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 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	0.430		0.0537	MDL	0.107	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 8:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.7		0.114	MDL	0.430	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 8:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0908	J	0.0795	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	3.91		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.504		0.0172	MDL	0.107	PQL	mg/Kg	J	E
CADMIUM	0.0789	J	0.0473	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	17.6		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E, A
COBALT	5.26		0.0215	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	7.31		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, E, A
LEAD	3.53		0.0110	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	11.3		0.107	MDL	0.430	PQL	mg/Kg	J	E, A
SILVER	0.0216	J	0.0153	MDL	0.107	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	31.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, Q, E, A
ZINC	55.2		0.602	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-124-SA6-SB-12.5-13.5 *Collected:* 7/22/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0621	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA6-SB-12.5-13.5 *Collected:* 7/22/2011 11:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.958		0.0535	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-124-SA6-SB-12.5-13.5 *Collected:* 7/22/2011 11:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.113	MDL	0.428	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-124-SA6-SB-12.5-13.5 ***Collected:*** 7/22/2011 11:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.325		0.0792	MDL	0.214	PQL	mg/Kg	J	Q
ARSENIC	9.43		0.0856	MDL	0.428	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.662		0.0171	MDL	0.107	PQL	mg/Kg	J	E
CHROMIUM	22.7		0.128	MDL	0.428	PQL	mg/Kg	J	Q, E, A
COBALT	13.1		0.0214	MDL	0.107	PQL	mg/Kg	J	E, A
COPPER	18.2		0.0856	MDL	0.428	PQL	mg/Kg	J	Q, E, A
LEAD	11.1		0.0109	MDL	0.214	PQL	mg/Kg	J	E, A
NICKEL	18.7		0.107	MDL	0.428	PQL	mg/Kg	J	E, A
SILVER	0.0509	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	47.0		0.0235	MDL	0.107	PQL	mg/Kg	J	Q, Q, E, A
ZINC	76.3		0.599	MDL	3.21	PQL	mg/Kg	J	E, A

Sample ID: SL-124-SA6-SB-4.0-5.0 ***Collected:*** 7/22/2011 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	0.124	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-124-SA6-SB-4.0-5.0 ***Collected:*** 7/22/2011 11:45:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.67		0.0527	MDL	0.105	PQL	mg/Kg	J	E

Sample ID: SL-124-SA6-SB-4.0-5.0 ***Collected:*** 7/22/2011 11:45:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.6		0.112	MDL	0.421	PQL	mg/Kg	J	E, A

Sample ID: SL-124-SA6-SB-4.0-5.0 ***Collected:*** 7/22/2011 11:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.343		0.0779	MDL	0.211	PQL	mg/Kg	J	Q
ARSENIC	8.69		0.0842	MDL	0.421	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.573		0.0168	MDL	0.105	PQL	mg/Kg	J	E
CHROMIUM	19.8		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	10.7		0.0211	MDL	0.105	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-124-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	23.2		0.0842	MDL	0.421	PQL	mg/Kg	J	Q, E, A
LEAD	9.65		0.0107	MDL	0.211	PQL	mg/Kg	J	E, A
NICKEL	16.4		0.105	MDL	0.421	PQL	mg/Kg	J	E, A
SILVER	0.0473	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	43.3		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, Q, E, A
ZINC	70.2		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0562	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.33		0.0485	MDL	0.0970	PQL	mg/Kg	J	E

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	107		0.103	MDL	0.388	PQL	mg/Kg	J	E, A

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.365		0.0718	MDL	0.194	PQL	mg/Kg	J	Q
ARSENIC	5.90		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.676		0.0155	MDL	0.0970	PQL	mg/Kg	J	E
CHROMIUM	22.6		0.116	MDL	0.388	PQL	mg/Kg	J	Q, E, A
COBALT	6.71		0.0194	MDL	0.0970	PQL	mg/Kg	J	E, A
COPPER	14.5		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, E, A
LEAD	12.6		0.0099	MDL	0.194	PQL	mg/Kg	J	E, A
NICKEL	84.5		0.0970	MDL	0.388	PQL	mg/Kg	J	E, A
SILVER	5.38		0.0138	MDL	0.0970	PQL	mg/Kg	J	Q, E, A
VANADIUM	37.9		0.0213	MDL	0.0970	PQL	mg/Kg	J	Q, Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	134		0.543	MDL	2.91	PQL	mg/Kg	J	E, A

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.220	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.837		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.106	MDL	0.400	PQL	mg/Kg	J	E, A

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.223		0.0741	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	8.27		0.0801	MDL	0.400	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.911		0.0160	MDL	0.100	PQL	mg/Kg	J	E
CHROMIUM	29.9		0.120	MDL	0.400	PQL	mg/Kg	J	Q, E, A
COBALT	10.1		0.0200	MDL	0.100	PQL	mg/Kg	J	E, A
COPPER	17.1		0.0801	MDL	0.400	PQL	mg/Kg	J	Q, E, A
LEAD	17.1		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	25.5		0.100	MDL	0.400	PQL	mg/Kg	J	E, A
SILVER	0.180		0.0142	MDL	0.100	PQL	mg/Kg	J	Q, E, A
VANADIUM	50.0		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, Q, E, A
ZINC	89.5		0.561	MDL	3.00	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 11:25:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	150		1.37	MDL	7.35	PQL	mg/Kg	J	E, A

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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	0.0812	J	0.0568	MDL	0.392	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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	0.793		0.0490	MDL	0.0979	PQL	mg/Kg	J	E

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
BARIUM	164		0.104	MDL	0.392	PQL	mg/Kg	J	E, A

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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	0.254		0.0725	MDL	0.196	PQL	mg/Kg	J	Q
ARSENIC	6.38		0.0784	MDL	0.392	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.514		0.0157	MDL	0.0979	PQL	mg/Kg	J	E
CHROMIUM	19.4		0.118	MDL	0.392	PQL	mg/Kg	J	Q, E, A
COBALT	7.59		0.0196	MDL	0.0979	PQL	mg/Kg	J	E, A
COPPER	13.6		0.0784	MDL	0.392	PQL	mg/Kg	J	Q, E, A
LEAD	10.5		0.010	MDL	0.196	PQL	mg/Kg	J	E, A
NICKEL	15.2		0.0979	MDL	0.392	PQL	mg/Kg	J	E, A
SILVER	0.0339	J	0.0139	MDL	0.0979	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	41.2		0.0215	MDL	0.0979	PQL	mg/Kg	J	Q, Q, E, A

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	153		1.39	MDL	7.42	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0574	MDL	0.396	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.813		0.0495	MDL	0.0989	PQL	mg/Kg	J	E

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	164		0.105	MDL	0.396	PQL	mg/Kg	J	E, A

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.266		0.0732	MDL	0.198	PQL	mg/Kg	J	Q
ARSENIC	6.72		0.0791	MDL	0.396	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.716		0.0158	MDL	0.0989	PQL	mg/Kg	J	E
CHROMIUM	21.4		0.119	MDL	0.396	PQL	mg/Kg	J	Q, E, A
COBALT	8.80		0.0198	MDL	0.0989	PQL	mg/Kg	J	E, A
COPPER	14.1		0.0791	MDL	0.396	PQL	mg/Kg	J	Q, E, A
LEAD	11.0		0.0101	MDL	0.198	PQL	mg/Kg	J	E, A
NICKEL	17.6		0.0989	MDL	0.396	PQL	mg/Kg	J	E, A
SILVER	0.126		0.0140	MDL	0.0989	PQL	mg/Kg	J	Q, E, A
VANADIUM	43.4		0.0218	MDL	0.0989	PQL	mg/Kg	J	Q, Q, E, A

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0578	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.883		0.0499	MDL	0.0997	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.106	MDL	0.399	PQL	mg/Kg	J	E, A

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.252		0.0738	MDL	0.199	PQL	mg/Kg	J	Q
ARSENIC	6.67		0.0798	MDL	0.399	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.923		0.0160	MDL	0.0997	PQL	mg/Kg	J	E
CHROMIUM	27.6		0.120	MDL	0.399	PQL	mg/Kg	J	Q, E, A
COBALT	8.40		0.0199	MDL	0.0997	PQL	mg/Kg	J	E, A
COPPER	15.2		0.0798	MDL	0.399	PQL	mg/Kg	J	Q, E, A
LEAD	17.2		0.0102	MDL	0.199	PQL	mg/Kg	J	E, A
NICKEL	22.0		0.0997	MDL	0.399	PQL	mg/Kg	J	E, A
SILVER	0.234		0.0142	MDL	0.0997	PQL	mg/Kg	J	Q, E, A
VANADIUM	45.1		0.0219	MDL	0.0997	PQL	mg/Kg	J	Q, Q, E, A
ZINC	88.2		0.558	MDL	2.99	PQL	mg/Kg	J	E, A

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0568	MDL	0.392	PQL	mg/Kg	J	Z

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.10		0.0490	MDL	0.0979	PQL	mg/Kg	J	E

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
BARIUM	128		0.104	MDL	0.392	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.197		0.0725	MDL	0.196	PQL	mg/Kg	J	Q
ARSENIC	4.75		0.0783	MDL	0.392	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.708		0.0157	MDL	0.0979	PQL	mg/Kg	J	E
CHROMIUM	21.7		0.118	MDL	0.392	PQL	mg/Kg	J	Q, E, A
COBALT	6.90		0.0196	MDL	0.0979	PQL	mg/Kg	J	E, A
COPPER	14.7		0.0783	MDL	0.392	PQL	mg/Kg	J	Q, E, A
LEAD	26.8		0.010	MDL	0.196	PQL	mg/Kg	J	E, A
NICKEL	17.8		0.0979	MDL	0.392	PQL	mg/Kg	J	E, A
SILVER	0.431		0.0139	MDL	0.0979	PQL	mg/Kg	J	Q, E, A
VANADIUM	38.5		0.0215	MDL	0.0979	PQL	mg/Kg	J	Q, Q, E, A
ZINC	154		0.548	MDL	2.94	PQL	mg/Kg	J	E, A

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0564	MDL	0.389	PQL	mg/Kg	J	Z

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.775		0.0487	MDL	0.0973	PQL	mg/Kg	J	E

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	133		0.103	MDL	0.389	PQL	mg/Kg	J	E, A

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0720	MDL	0.195	PQL	mg/Kg	J	Z, Q
ARSENIC	5.63		0.0779	MDL	0.389	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.786		0.0156	MDL	0.0973	PQL	mg/Kg	J	E
CHROMIUM	25.6		0.117	MDL	0.389	PQL	mg/Kg	J	Q, E, A
COBALT	7.41		0.0195	MDL	0.0973	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.5		0.0779	MDL	0.389	PQL	mg/Kg	J	Q, E, A
LEAD	34.2		0.0099	MDL	0.195	PQL	mg/Kg	J	E, A
NICKEL	19.4		0.0973	MDL	0.389	PQL	mg/Kg	J	E, A
SILVER	0.200		0.0138	MDL	0.0973	PQL	mg/Kg	J	Q, E, A
VANADIUM	43.3		0.0214	MDL	0.0973	PQL	mg/Kg	J	Q, Q, E, A
ZINC	94.2		0.545	MDL	2.92	PQL	mg/Kg	J	E, A

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.211	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.796		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.106	MDL	0.401	PQL	mg/Kg	J	E, A

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.212		0.0742	MDL	0.200	PQL	mg/Kg	J	Q
ARSENIC	6.06		0.0802	MDL	0.401	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.761		0.0160	MDL	0.100	PQL	mg/Kg	J	E
CHROMIUM	25.9		0.120	MDL	0.401	PQL	mg/Kg	J	Q, E, A
COBALT	7.50		0.0200	MDL	0.100	PQL	mg/Kg	J	E, A
COPPER	12.3		0.0802	MDL	0.401	PQL	mg/Kg	J	Q, E, A
LEAD	8.51		0.0102	MDL	0.200	PQL	mg/Kg	J	E, A
NICKEL	19.0		0.100	MDL	0.401	PQL	mg/Kg	J	E, A
SILVER	0.0522	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q, E, A
VANADIUM	41.2		0.0221	MDL	0.100	PQL	mg/Kg	J	Q, Q, E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	72.9		0.561	MDL	3.01	PQL	mg/Kg	J	E, A

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0563	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.864		0.0485	MDL	0.0970	PQL	mg/Kg	J	E

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.103	MDL	0.388	PQL	mg/Kg	J	E, A

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.256		0.0718	MDL	0.194	PQL	mg/Kg	J	Q
ARSENIC	5.78		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, Q, E
BERYLLIUM	0.776		0.0155	MDL	0.0970	PQL	mg/Kg	J	E
CHROMIUM	23.8		0.116	MDL	0.388	PQL	mg/Kg	J	Q, E, A
COBALT	7.49		0.0194	MDL	0.0970	PQL	mg/Kg	J	E, A
COPPER	14.7		0.0776	MDL	0.388	PQL	mg/Kg	J	Q, E, A
LEAD	22.6		0.0099	MDL	0.194	PQL	mg/Kg	J	E, A
NICKEL	19.7		0.0970	MDL	0.388	PQL	mg/Kg	J	E, A
SILVER	0.341		0.0138	MDL	0.0970	PQL	mg/Kg	J	Q, E, A
VANADIUM	41.5		0.0213	MDL	0.0970	PQL	mg/Kg	J	Q, Q, E, A
ZINC	99.3		0.543	MDL	2.91	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.63	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0155	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.010	J	0.0068	MDL	0.0964	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0346	J	0.0070	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0069	MDL	0.0982	PQL	mg/Kg	J	Z

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0156	J	0.0069	MDL	0.0987	PQL	mg/Kg	J	Z

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0239	J	0.0069	MDL	0.0983	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 8:45:00 *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)	0.74	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-233-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 8:09:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.12	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-238-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 8:56:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.23	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
Chlordane	2.1	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-241-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 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
ENDRIN KETONE	0.25	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.084	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-242-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 3:27:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
gamma-BHC (Lindane)	0.096	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-244-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 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
gamma-BHC (Lindane)	0.036	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-307-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 2:12:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	3.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-308-SA6-SS-0.0-0.5 ***Collected:*** 7/22/2011 1:54:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.27	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z
4,4'-DDT	0.25	J	0.067	MDL	0.35	PQL	ug/Kg	J	Z
Chlordane	1.4	J	0.82	MDL	3.5	PQL	ug/Kg	J	Z
DELTA-BHC	0.054	J	0.037	MDL	0.17	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOXAPHENE	2.4	J	2.2	MDL	6.7	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.4	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
ENDRIN KETONE	0.093	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.2	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.7	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: SL-241-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
AROCLOR 1254	0.74	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.77	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *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	1.5	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.5	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.085	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.5	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z

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

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	150	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	91	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	80	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	25	J	18	MDL	360	PQL	ug/Kg	J	Z
CHRYSENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	80	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-124-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	47	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	31	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
CHRYSENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	78	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	48	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	63	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *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	23	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *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	30	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *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	32	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
BENZO(A)PYRENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
CHRYSENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	21	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-307-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:12:00 *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	150	J	17	MDL	340	PQL	ug/Kg	J	Z
FLUORANTHENE	42	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	24	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	31	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	340	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.3	J	1.8	MDL	9.1	PQL	ug/Kg	J	Z
PHENANTHRENE	4.4	J	3.6	MDL	9.1	PQL	ug/Kg	J	Z

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.3	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	6.9	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-124-SA6-SB-12.5-13.5 *Collected:* 7/22/2011 11:55:00 *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(B)FLUORANTHENE	4.3	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.9	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
CHRYSENE	4.5	J	1.8	MDL	9.2	PQL	ug/Kg	J	Z
FLUORANTHENE	5.8	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PYRENE	5.5	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

Sample ID: SL-124-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	6.3	J	3.6	MDL	9.0	PQL	ug/Kg	J	Z

Sample ID: SL-233-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.69	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Diethylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	Q

Sample ID: SL-238-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 8:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-242-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 3:27:00 *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	3.4	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-243-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.73	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-244-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 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
ACENAPHTHYLENE	1.0	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.79	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-308-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 1:54:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.86	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.0	J	6.1	MDL	18	PQL	ug/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5 *Collected:* 7/22/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.50	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.85	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-075-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 3:15:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	270	J	110	MDL	550	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory:** LL

EDD Filename: DE207_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-082-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 10:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	UJ	S
p-Terphenyl	1.6	U	1.6	MDL	3.7	PQL	mg/Kg	UJ	S

Sample ID: SL-103-SA6-SB-4.0-5.0 *Collected:* 7/22/2011 8:35:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	280	J	110	MDL	530	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA6-SB-9.0-10.0 *Collected:* 7/22/2011 8:45:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	290	J	110	MDL	550	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE207

Method Blank Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1625C**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA21B261345	8/10/2011 1:45:00 PM	N-NITROSODIMETHYLAMINE	40.2 ng/Kg	SL-233-SA6-SS-0.0-0.5

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21308BB220258	8/3/2011 2:58:00 AM	ALUMINUM CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	9.65 mg/Kg 20.3 mg/Kg 4.18 mg/Kg 0.608 mg/Kg 1.24 mg/Kg 0.110 mg/Kg 1.76 mg/Kg	SL-075-SA6-SB-4.0-5.0 SL-075-SA6-SB-9.0-10.0 SL-082-SA6-SB-4.0-5.0 SL-082-SA6-SB-9.0-10.0 SL-103-SA6-SB-4.0-5.0 SL-103-SA6-SB-9.0-10.0 SL-124-SA6-SB-12.5-13.5 SL-124-SA6-SB-4.0-5.0 SL-233-SA6-SS-0.0-0.5 SL-238-SA6-SS-0.0-0.5 SL-241-SA6-SS-0.0-0.5 SL-242-SA6-SS-0.0-0.5 SL-243-SA6-SS-0.0-0.5 SL-244-SA6-SS-0.0-0.5 SL-307-SA6-SS-0.0-0.5 SL-308-SA6-SS-0.0-0.5 SL-309-SA6-SS-0.0-0.5
P21308BB221125	8/3/2011 11:25:00 AM	BORON	1.45 mg/Kg	SL-075-SA6-SB-4.0-5.0 SL-075-SA6-SB-9.0-10.0 SL-082-SA6-SB-4.0-5.0 SL-082-SA6-SB-9.0-10.0 SL-103-SA6-SB-4.0-5.0 SL-103-SA6-SB-9.0-10.0 SL-124-SA6-SB-12.5-13.5 SL-124-SA6-SB-4.0-5.0 SL-233-SA6-SS-0.0-0.5 SL-238-SA6-SS-0.0-0.5 SL-241-SA6-SS-0.0-0.5 SL-242-SA6-SS-0.0-0.5 SL-243-SA6-SS-0.0-0.5 SL-244-SA6-SS-0.0-0.5 SL-307-SA6-SS-0.0-0.5 SL-308-SA6-SS-0.0-0.5 SL-309-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-075-SA6-SB-4.0-5.0(REA)	BORON	4.06 mg/Kg	4.06U mg/Kg
SL-075-SA6-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-075-SA6-SB-9.0-10.0(REA)	BORON	0.854 mg/Kg	0.854U mg/Kg
SL-075-SA6-SB-9.0-10.0(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SL-082-SA6-SB-4.0-5.0(REA)	BORON	1.73 mg/Kg	1.73U mg/Kg
SL-082-SA6-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-082-SA6-SB-9.0-10.0(REA)	BORON	1.35 mg/Kg	1.35U mg/Kg
SL-082-SA6-SB-9.0-10.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-103-SA6-SB-4.0-5.0(REA)	BORON	1.46 mg/Kg	1.46U mg/Kg
SL-103-SA6-SB-4.0-5.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_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-103-SA6-SB-9.0-10.0(REA)	BORON	1.41 mg/Kg	1.41U mg/Kg
SL-103-SA6-SB-9.0-10.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg
SL-124-SA6-SB-12.5-13.5(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-124-SA6-SB-4.0-5.0(REA)	BORON	1.56 mg/Kg	1.56U mg/Kg
SL-124-SA6-SB-4.0-5.0(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-233-SA6-SS-0.0-0.5(REA)	BORON	2.63 mg/Kg	2.63U mg/Kg
SL-233-SA6-SS-0.0-0.5(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-238-SA6-SS-0.0-0.5(REA)	BORON	3.32 mg/Kg	3.32U mg/Kg
SL-238-SA6-SS-0.0-0.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-241-SA6-SS-0.0-0.5(REA)	BORON	3.23 mg/Kg	3.23U mg/Kg
SL-241-SA6-SS-0.0-0.5(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-242-SA6-SS-0.0-0.5(REA)	BORON	5.17 mg/Kg	5.17U mg/Kg
SL-242-SA6-SS-0.0-0.5(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-243-SA6-SS-0.0-0.5(REA)	BORON	3.36 mg/Kg	3.36U mg/Kg
SL-243-SA6-SS-0.0-0.5(RES)	TIN	2.72 mg/Kg	2.72U mg/Kg
SL-244-SA6-SS-0.0-0.5(REA)	BORON	3.33 mg/Kg	3.33U mg/Kg
SL-244-SA6-SS-0.0-0.5(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-307-SA6-SS-0.0-0.5(REA)	BORON	3.22 mg/Kg	3.22U mg/Kg
SL-307-SA6-SS-0.0-0.5(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-308-SA6-SS-0.0-0.5(REA)	BORON	5.97 mg/Kg	5.97U mg/Kg
SL-308-SA6-SS-0.0-0.5(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-309-SA6-SS-0.0-0.5(REA)	BORON	4.10 mg/Kg	4.10U mg/Kg
SL-309-SA6-SS-0.0-0.5(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg

Method: **8151A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P15156AB242338A	8/4/2011 11:38:00 PM	2,4,5-T MCPP	0.085 ug/Kg 81 ug/Kg	SL-233-SA6-SS-0.0-0.5 SL-238-SA6-SS-0.0-0.5 SL-241-SA6-SS-0.0-0.5 SL-242-SA6-SS-0.0-0.5 SL-243-SA6-SS-0.0-0.5 SL-244-SA6-SS-0.0-0.5 SL-307-SA6-SS-0.0-0.5 SL-308-SA6-SS-0.0-0.5 SL-309-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLN21B261133	8/16/2011 11:33:00 AM	Diethylphthalate	74 ug/Kg	SL-075-SA6-SB-4.0-5.0 SL-075-SA6-SB-9.0-10.0 SL-082-SA6-SB-4.0-5.0 SL-082-SA6-SB-9.0-10.0 SL-103-SA6-SB-4.0-5.0 SL-103-SA6-SB-9.0-10.0 SL-124-SA6-SB-12.5-13.5 SL-124-SA6-SB-4.0-5.0 SL-233-SA6-SS-0.0-0.5 SL-238-SA6-SS-0.0-0.5 SL-241-SA6-SS-0.0-0.5 SL-242-SA6-SS-0.0-0.5 SL-243-SA6-SS-0.0-0.5 SL-244-SA6-SS-0.0-0.5 SL-307-SA6-SS-0.0-0.5 SL-308-SA6-SS-0.0-0.5 SL-309-SA6-SS-0.0-0.5

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_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-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-233-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	22 48 62	27 53 -	59.00-109.00 63.00-107.00 63.00-107.00	21 (20.00) - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-233-SA6-SS-0.0-0.5)	EFH (C15-C20) EFH (C30-C40)	146 276	165 260	49.00-123.00 49.00-123.00	- -	EFH (C15-C20) EFH (C30-C40)	J(all detects) 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-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	ARSENIC NICKEL VANADIUM ZINC	49 -604 32 26	28 -604 10 -182	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ARSENIC NICKEL VANADIUM ZINC	J(all detects) R(all non-detects) Ni, Zn, No Qual, >4x As Post Spike = 29% V Post Spike = -1150%
SL-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	ANTIMONY CHROMIUM COPPER LEAD SILVER	50 46 64 70 67	48 39 62 48 71	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ANTIMONY CHROMIUM COPPER LEAD SILVER	J(all detects) UJ(all non-detects) Pb, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_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-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	BARIUM	-124	-120	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-233-SA6-SS-0.0-0.5MS	ALUMINUM	1638	1041	75.00-125.00	-	ALUMINUM	
SL-233-SA6-SS-0.0-0.5MSD	CALCIUM	184	134	75.00-125.00	-	CALCIUM	
(SL-075-SA6-SB-4.0-5.0	MAGNESIUM	334	172	75.00-125.00	-	MAGNESIUM	
SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)							No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_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-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	IRON	558	-208	75.00-125.00	-	IRON	No Qual, >4x
SL-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	MANGANESE PHOSPHORUS	174 -	74 73	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-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-233-SA6-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_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-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	TITANIUM	170	153	75.00-125.00	-	TITANIUM	No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-233-SA6-SS-0.0-0.5)	Di-n-butylphthalate	255	-	65.00-148.00	73 (30.00)	Di-n-butylphthalate	J(all detects)
SL-233-SA6-SS-0.0-0.5MS SL-233-SA6-SS-0.0-0.5MSD (SL-233-SA6-SS-0.0-0.5)	Diethylphthalate	67	66	70.00-136.00	-	Diethylphthalate	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE207 Laboratory: LL

EDD Filename: DE207_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-233-SA6-SS-0.0-0.5DUP	ANTIMONY	76	20.00	
(SL-075-SA6-SB-4.0-5.0	ARSENIC	46	20.00	
SL -075-SA6-SB-9.0-10.0	BARIUM	46	20.00	
SL -082-SA6-SB-4.0-5.0	BERYLLIUM	0.237	0.194 mg/kg	
SL -082-SA6-SB-9.0-10.0	CADMIUM	57	20.00	
SL -103-SA6-SB-4.0-5.0	CHROMIUM	48	20.00	
SL -103-SA6-SB-9.0-10.0	COBALT	44	20.00	
SL -124-SA6-SB-12.5-13.5	COPPER	58	20.00	
SL -124-SA6-SB-4.0-5.0	LEAD	30	20.00	
SL -233-SA6-SS-0.0-0.5	MOLYBDENUM	0.9376	0.194 mg/kg	J (all detects) UJ (all non-detects)
SL -238-SA6-SS-0.0-0.5	NICKEL	154	20.00	
SL -241-SA6-SS-0.0-0.5	SELENIUM	41	20.00	
SL -242-SA6-SS-0.0-0.5	SILVER	5.1993	0.194 mg/kg	
SL -243-SA6-SS-0.0-0.5	THALLIUM	39	20.00	
SL -244-SA6-SS-0.0-0.5	VANADIUM	39	20.00	Sb, Cd, Se, Tl, No Qual, OK by Difference
SL -307-SA6-SS-0.0-0.5	ZINC	38	20.00	
SL -308-SA6-SS-0.0-0.5				
SL -309-SA6-SS-0.0-0.5)				

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-082-SA6-SB-9.0-10.0DUP	FLUORIDE	21	20.00	
(SL-075-SA6-SB-4.0-5.0				
SL -075-SA6-SB-9.0-10.0				
SL -082-SA6-SB-9.0-10.0				No Qual, OK by Difference
SL -103-SA6-SB-4.0-5.0				
SL -103-SA6-SB-9.0-10.0				
SL -124-SA6-SB-12.5-13.5				
SL -124-SA6-SB-4.0-5.0)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P21308BQ220302 (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	ALUMINUM IRON MAGNESIUM	153 136 128	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM within QC Limits
P21508AQ221702 (SL-075-SA6-SB-4.0-5.0 SL -075-SA6-SB-9.0-10.0 SL -082-SA6-SB-4.0-5.0 SL -082-SA6-SB-9.0-10.0 SL -103-SA6-SB-4.0-5.0 SL -103-SA6-SB-9.0-10.0 SL -124-SA6-SB-12.5-13.5 SL -124-SA6-SB-4.0-5.0 SL -233-SA6-SS-0.0-0.5 SL -238-SA6-SS-0.0-0.5 SL -241-SA6-SS-0.0-0.5 SL -242-SA6-SS-0.0-0.5 SL -243-SA6-SS-0.0-0.5 SL -244-SA6-SS-0.0-0.5 SL -307-SA6-SS-0.0-0.5 SL -308-SA6-SS-0.0-0.5 SL -309-SA6-SS-0.0-0.5)	TITANIUM	167	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

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

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-082-SA6-SB-4.0 -5.0	n-Triacontane-d62	41	50.00-150.00	All Target Analytes	J (all detects) UJ (all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA6-SB-4.0-5.0	BORON	J	4.06	5.41	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.8	PQL	mg/Kg	
	Zirconium	J	3.22	5.41	PQL	mg/Kg	
SL-075-SA6-SB-9.0-10.0	BORON	J	0.854	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.38	10.7	PQL	mg/Kg	
	Zirconium	J	2.85	5.35	PQL	mg/Kg	
SL-082-SA6-SB-4.0-5.0	BORON	J	1.73	5.20	PQL	mg/Kg	J (all detects)
	TIN	J	2.33	10.4	PQL	mg/Kg	
	Zirconium	J	2.38	5.20	PQL	mg/Kg	
SL-082-SA6-SB-9.0-10.0	BORON	J	1.35	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.6	PQL	mg/Kg	
	Zirconium	J	2.24	5.30	PQL	mg/Kg	
SL-103-SA6-SB-4.0-5.0	BORON	J	1.46	5.24	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	10.5	PQL	mg/Kg	
	Zirconium	J	2.00	5.24	PQL	mg/Kg	
SL-103-SA6-SB-9.0-10.0	BORON	J	1.41	5.43	PQL	mg/Kg	J (all detects)
	TIN	J	2.46	10.9	PQL	mg/Kg	
	Zirconium	J	2.04	5.43	PQL	mg/Kg	
SL-124-SA6-SB-12.5-13.5	TIN	J	2.44	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.79	5.35	PQL	mg/Kg	
SL-124-SA6-SB-4.0-5.0	BORON	J	1.56	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.89	10.6	PQL	mg/Kg	
	Zirconium	J	2.56	5.32	PQL	mg/Kg	
SL-233-SA6-SS-0.0-0.5	BORON	J	2.63	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	61.1	98.9	PQL	mg/Kg	
	TIN	J	2.45	9.89	PQL	mg/Kg	
	Zirconium	J	2.43	4.94	PQL	mg/Kg	
SL-238-SA6-SS-0.0-0.5	BORON	J	3.32	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.2	100	PQL	mg/Kg	
	TIN	J	2.89	10.0	PQL	mg/Kg	
	Zirconium	J	2.85	5.01	PQL	mg/Kg	
SL-241-SA6-SS-0.0-0.5	BORON	J	3.23	5.04	PQL	mg/Kg	J (all detects)
	TIN	J	2.07	10.1	PQL	mg/Kg	
SL-242-SA6-SS-0.0-0.5	SODIUM	J	182	490	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	49.0	PQL	mg/Kg	
	Zirconium	J	6.60	24.5	PQL	mg/Kg	
SL-243-SA6-SS-0.0-0.5	BORON	J	3.36	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.3	98.7	PQL	mg/Kg	
	TIN	J	2.72	9.87	PQL	mg/Kg	
	Zirconium	J	2.90	4.94	PQL	mg/Kg	
SL-244-SA6-SS-0.0-0.5	BORON	J	3.33	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.2	98.9	PQL	mg/Kg	
	TIN	J	2.79	9.89	PQL	mg/Kg	
	Zirconium	J	2.89	4.94	PQL	mg/Kg	
SL-307-SA6-SS-0.0-0.5	BORON	J	3.22	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.8	99.2	PQL	mg/Kg	
	TIN	J	2.64	9.92	PQL	mg/Kg	
	Zirconium	J	2.40	4.96	PQL	mg/Kg	
SL-308-SA6-SS-0.0-0.5	SODIUM	J	74.0	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.33	10.1	PQL	mg/Kg	
	Zirconium	J	2.21	5.06	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-309-SA6-SS-0.0-0.5	BORON	J	4.10	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.1	98.0	PQL	mg/Kg	
	TIN	J	2.79	9.80	PQL	mg/Kg	
	Zirconium	J	2.87	4.90	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA6-SB-4.0-5.0	ANTIMONY	J	0.173	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.164	0.437	PQL	mg/Kg	
	SILVER	J	0.0553	0.109	PQL	mg/Kg	
SL-075-SA6-SB-9.0-10.0	ANTIMONY	J	0.159	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.419	PQL	mg/Kg	
	SILVER	J	0.0374	0.105	PQL	mg/Kg	
SL-082-SA6-SB-4.0-5.0	ANTIMONY	J	0.132	0.204	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0569	0.102	PQL	mg/Kg	
	SELENIUM	J	0.0885	0.408	PQL	mg/Kg	
	SILVER	J	0.0359	0.102	PQL	mg/Kg	
SL-082-SA6-SB-9.0-10.0	ANTIMONY	J	0.166	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0890	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0858	0.428	PQL	mg/Kg	
	SILVER	J	0.0232	0.107	PQL	mg/Kg	
SL-103-SA6-SB-4.0-5.0	ANTIMONY	J	0.134	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.424	PQL	mg/Kg	
	SILVER	J	0.0287	0.106	PQL	mg/Kg	
SL-103-SA6-SB-9.0-10.0	ANTIMONY	J	0.0908	0.215	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0789	0.107	PQL	mg/Kg	
	SILVER	J	0.0216	0.107	PQL	mg/Kg	
SL-124-SA6-SB-12.5-13.5	SELENIUM	J	0.108	0.428	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0509	0.107	PQL	mg/Kg	
SL-124-SA6-SB-4.0-5.0	SELENIUM	J	0.124	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0473	0.105	PQL	mg/Kg	
SL-233-SA6-SS-0.0-0.5	SELENIUM	J	0.160	0.388	PQL	mg/Kg	J (all detects)
SL-238-SA6-SS-0.0-0.5	SELENIUM	J	0.220	0.400	PQL	mg/Kg	J (all detects)
SL-241-SA6-SS-0.0-0.5	SELENIUM	J	0.0812	0.392	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0339	0.0979	PQL	mg/Kg	
SL-242-SA6-SS-0.0-0.5	SELENIUM	J	0.118	0.396	PQL	mg/Kg	J (all detects)
SL-243-SA6-SS-0.0-0.5	SELENIUM	J	0.192	0.399	PQL	mg/Kg	J (all detects)
SL-244-SA6-SS-0.0-0.5	SELENIUM	J	0.149	0.392	PQL	mg/Kg	J (all detects)
SL-307-SA6-SS-0.0-0.5	ANTIMONY	J	0.190	0.195	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.158	0.389	PQL	mg/Kg	
SL-308-SA6-SS-0.0-0.5	SELENIUM	J	0.211	0.401	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0522	0.100	PQL	mg/Kg	
SL-309-SA6-SS-0.0-0.5	SELENIUM	J	0.193	0.388	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.63	1.1	PQL	mg/Kg	J (all detects)
SL-233-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.61	1.0	PQL	mg/Kg	J (all detects)
SL-238-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-244-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.67	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA6-SB-9.0-10.0	MERCURY	J	0.0155	0.107	PQL	mg/Kg	J (all detects)
SL-238-SA6-SS-0.0-0.5	MERCURY	J	0.010	0.0964	PQL	mg/Kg	J (all detects)
SL-241-SA6-SS-0.0-0.5	MERCURY	J	0.0346	0.0993	PQL	mg/Kg	J (all detects)
SL-242-SA6-SS-0.0-0.5	MERCURY	J	0.0193	0.0982	PQL	mg/Kg	J (all detects)
SL-243-SA6-SS-0.0-0.5	MERCURY	J	0.0156	0.0987	PQL	mg/Kg	J (all detects)
SL-308-SA6-SS-0.0-0.5	MERCURY	J	0.0090	0.100	PQL	mg/Kg	J (all detects)
SL-309-SA6-SS-0.0-0.5	MERCURY	J	0.0239	0.0983	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA6-SB-9.0-10.0	METHANOL	J	270	550	PQL	ug/Kg	J (all detects)
SL-103-SA6-SB-4.0-5.0	METHANOL	J	280	530	PQL	ug/Kg	J (all detects)
SL-103-SA6-SB-9.0-10.0	METHANOL	J	290	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA6-SB-9.0-10.0	EFH (C21-C30)	J	0.74	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-233-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.12	0.17	PQL	ug/Kg	J (all detects)
SL-238-SA6-SS-0.0-0.5	4,4'-DDE	J	0.23	0.34	PQL	ug/Kg	J (all detects)
	Chlordane	J	2.1	3.4	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-241-SA6-SS-0.0-0.5	ENDRIN KETONE gamma-BHC (Lindane)	J J	0.25 0.084	0.34 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-242-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.096	0.17	PQL	ug/Kg	J (all detects)
SL-244-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.036	0.17	PQL	ug/Kg	J (all detects)
SL-307-SA6-SS-0.0-0.5	Chlordane	J	3.3	3.4	PQL	ug/Kg	J (all detects)
SL-308-SA6-SS-0.0-0.5	4,4'-DDE 4,4'-DDT Chlordane DELTA-BHC TOXAPHENE	J J J J J	0.27 0.25 1.4 0.054 2.4	0.35 0.35 3.5 0.17 6.7	PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-309-SA6-SS-0.0-0.5	Chlordane ENDRIN KETONE	J J	2.4 0.093	3.4 0.34	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-238-SA6-SS-0.0-0.5	AROCLOR 1260 Aroclor 5460	J J	1.2 2.7	1.7 3.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-241-SA6-SS-0.0-0.5	AROCLOR 1254	J	0.74	1.7	PQL	ug/Kg	J (all detects)
SL-242-SA6-SS-0.0-0.5	AROCLOR 1260	J	0.77	1.7	PQL	ug/Kg	J (all detects)
SL-243-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.5	1.7	PQL	ug/Kg	J (all detects)
SL-308-SA6-SS-0.0-0.5	Aroclor 5460	J	1.5	3.4	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-233-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.085	0.17	PQL	ug/Kg	J (all detects)
SL-308-SA6-SS-0.0-0.5	2,4-DB	J	1.5	1.7	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA6-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	130	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	130	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	150	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	91	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	80	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	25	360	PQL	ug/Kg	
	CHRYSENE	J	130	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	24	180	PQL	ug/Kg	
	FLUORANTHENE	J	110	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	80	180	PQL	ug/Kg	
	PYRENE	J	110	180	PQL	ug/Kg	
SL-124-SA6-SB-4.0-5.0	BENZO(A)PYRENE	J	47	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	33	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	31	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	25	180	PQL	ug/Kg	
SL-233-SA6-SS-0.0-0.5	CHRYSENE	J	24	170	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	78	170	PQL	ug/Kg	
	PHENANTHRENE	J	48	170	PQL	ug/Kg	
	PYRENE	J	63	170	PQL	ug/Kg	
SL-238-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	340	PQL	ug/Kg	J (all detects)
SL-242-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	J (all detects)
SL-243-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	32	340	PQL	ug/Kg	J (all detects)
SL-244-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	19	170	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	25	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	
	CHRYSENE	J	18	170	PQL	ug/Kg	
	FLUORANTHENE	J	18	170	PQL	ug/Kg	
	PYRENE	J	21	170	PQL	ug/Kg	
SL-307-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	150	340	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	42	170	PQL	ug/Kg	
	PHENANTHRENE	J	24	170	PQL	ug/Kg	
	PYRENE	J	31	170	PQL	ug/Kg	
SL-309-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	340	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-075-SA6-SB-9.0-10.0	ANTHRACENE	J	2.3	9.1	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	4.4	9.1	PQL	ug/Kg	
SL-082-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	8.3	8.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	4.3	8.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	6.9	8.8	PQL	ug/Kg	
SL-124-SA6-SB-12.5-13.5	BENZO(B)FLUORANTHENE	J	4.3	9.2	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.9	9.2	PQL	ug/Kg	
	CHRYSENE	J	4.5	9.2	PQL	ug/Kg	
	FLUORANTHENE	J	5.8	9.2	PQL	ug/Kg	
	PYRENE	J	5.5	9.2	PQL	ug/Kg	
SL-124-SA6-SB-4.0-5.0	DIBENZO(A,H)ANTHRACENE	J	6.3	9.0	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE207 **Laboratory: LL**

EDD Filename: DE207_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-233-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.69	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	18	PQL	ug/Kg	
SL-238-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.5	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	
SL-242-SA6-SS-0.0-0.5	CHRYSENE	J	3.4	8.4	PQL	ug/Kg	J (all detects)
SL-243-SA6-SS-0.0-0.5	ANTHRACENE	J	0.73	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.2	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.7	PQL	ug/Kg	
SL-244-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.79	1.7	PQL	ug/Kg	
SL-308-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.86	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.83	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.95	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.0	18	PQL	ug/Kg	
SL-309-SA6-SS-0.0-0.5	ANTHRACENE	J	0.50	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.85	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.6	1.7	PQL	ug/Kg	

LDC #: 26407G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE207 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: AR
2nd Reviewer: MG

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

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

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

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

Validated Samples:

1	SL-233-SA6-SS-0.0-0.5	11	SL-082-SA6-SB-9.0-10.0	21		31	
2	SL-238-SA6-SS-0.0-0.5	12	SL-103-SA6-SB-4.0-5.0	22		32	
3	SL-241-SA6-SS-0.0-0.5	13	SL-103-SA6-SB-9.0-10.0	23		33	
4	SL-242-SA6-SS-0.0-0.5	14	SL-124-SA6-SB-4.0-5.0	24		34	
5	SL-243-SA6-SS-0.0-0.5	15	SL-124-SA6-SB-12.5-13.5	25		35	
6	SL-244-SA6-SS-0.0-0.5	16	SL-075-SA6-SB-4.0-5.0	26		36	
7	SL-307-SA6-SS-0.0-0.5	17	SL-075-SA6-SB-9.0-10.0	27		37	
8	SL-308-SA6-SS-0.0-0.5	18	MS	28		38	
9	SL-309-SA6-SS-0.0-0.5	19	MSD	29		39	
10	SL-082-SA6-SB-4.0-5.0	20	Dup	30		40	

Notes: _____

LDC #: 26407G4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: CR
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	5	6	7	8	9	10	11	12				
Zr	7.5	3.75	2.4	2.8	2.9	2.9	2.4	2.2	2.9	2.4	2.2	2.0				

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE207
Matrix: SOIL Level (low/med): LOW

>4X

Background Lab Sample ID: 6354150BKG Matrix Spike Lab Sample ID: 6354150MS Matrix Spike Duplicate Lab Sample ID: 6354150MSD
% Solids for Sample: 99.2
Batch Id(s): P21308B, P21326A, P21311B, P21508A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum -		10977.5459		14247.2942		13055.5943		199.6167	199.6167	MG/KG	1638		1041		9			20	P
Antimony	121	0.3650		0.9606		0.9339		1.1860	1.1744	MG/KG	50	N	48	N	3		75 - 125	20	MS
Arsenic	75	5.8933		6.8608		6.4497		1.9766	1.9574	MG/KG	49	N	28	N	6		75 - 125	20	MS
Barium -	137	106.6804		94.4220		94.9734		9.8830	9.7870	MG/KG	-124		-120		1			20	MS
Beryllium	9	0.6752		1.5332		1.5274		0.7906	0.7830	MG/KG	109		109		0		75 - 125	20	MS
Boron		2.6279	B	202.8385		198.8772		199.6167	199.6167	MG/KG	100		98		2		84 - 115	20	P
Cadmium	111	0.4154		1.4761		1.4563		0.9883	0.9787	MG/KG	107		106		1		75 - 125	20	MS
Calcium -		1934.3345		2667.0123		2471.2103		399.2335	399.2335	MG/KG	184		134		8			20	P
Chromium	52	22.5458		27.1387		26.3467		9.8830	9.7870	MG/KG	46	N	39	N	3		75 - 125	20	MS
Cobalt	59	6.7036		60.5432		60.9732		49.4149	48.9352	MG/KG	109		111		1		75 - 125	20	MS
Copper	63	14.5375		20.8729		20.6506		9.8830	9.7870	MG/KG	64	N	62	N	1		75 - 125	20	MS
Iron -		15369.4576		15926.1059		15162.2066		99.8084	99.8084	MG/KG	558		-208		5			20	P
Lead -	208	12.5582		14.6189		13.9661		2.9649	2.9361	MG/KG	70		48		5			20	MS
Lithium		17.7400		119.9237		116.9075		99.8084	99.8084	MG/KG	102		99		3		82 - 114	20	P
Magnesium -		3228.2515		3895.8001		3572.4219		199.6167	199.6167	MG/KG	334		172		9			20	P
Manganese -		236.2538		322.8501		273.1765		49.9042	49.9042	MG/KG	174		74		17			20	P
Mercury		0.0070	U	0.1646		0.1673		0.1598	0.1609	MG/KG	103		104		2		65 - 135	20	CV
Molybdenum	98	1.3314		12.1897		12.7642		9.8830	9.7870	MG/KG	110		117		5		75 - 125	20	MS
Nickel -	60	84.4448		24.7668		25.2897		9.8830	9.7870	MG/KG	-604		-604		2			20	MS
Phosphorus		345.0190		444.9048		418.1921		99.8084	99.8084	MG/KG	100		73	N	6		75 - 125	20	P
Potassium		2589.6169		3819.3459		3745.8420		998.0837	998.0837	MG/KG	123		116		2		75 - 125	20	P
Selenium	78	0.1596	B	2.5043		2.4448		1.9766	1.9574	MG/KG	119		117		2		75 - 125	20	MS
Silver	107	5.3815		12.0395		12.3277		9.8830	9.7870	MG/KG	67	N	71	N	2		75 - 125	20	MS
Sodium		61.0680	B	1039.6519		1021.1504		998.0837	998.0837	MG/KG	98		96		2		75 - 125	20	P
Strontium		13.2600		112.4401		110.7294		99.8084	99.8084	MG/KG	99		98		2		75 - 115	20	P
Thallium	203	0.2801		0.6699		0.6638		0.3953	0.3915	MG/KG	99		98		1		75 - 125	20	MS
Tin		2.4510	B	352.1768		352.3096		399.2335	399.2335	MG/KG	88		88		0		80 - 110	20	P
Titanium -		833.8931		1002.3660		984.9047		98.8299	98.8299	MG/KG	170		153		2			20	P
Vanadium	51	37.8800		41.0342		38.8350		9.8830	9.7870	MG/KG	32	N	10	N	6		75 - 125	20	MS
Zinc -	66	134.2858		136.8991		116.4461		9.8830	9.7870	MG/KG	26		-182		16			20	MS
Zirconium		2.4243	B	96.8431		96.0256		99.8084	99.8084	MG/KG	95		94		1		75 - 125	20	P

DE207 2 of 2

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

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE207
Matrix: SOIL Level (low/med): LOW

<5X

Background Lab Sample ID: 6354150BKG
% Solids for Duplicate: 99.2
Batch ID(s): P21308B, P21326A, P21311B, P21508A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6354150DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			10977.5459		10917.5453		1		P
Antimony	121	0.2	0.3650		0.1649	B	76	*	MS
Arsenic	75		5.8933		3.6909		46	*	MS
Barium	137		106.6804		66.5522		46	*	MS
* Beryllium	9	0.1	0.6752		0.4382		43	*	MS
Boron			2.6279	B	2.5330	B	4		P
Cadmium	111	0.1	0.4154		0.2320		57	*	MS
Calcium			1934.3345		1850.5969		4		P
Chromium	52		22.5458		13.7915		48	*	MS
Cobalt	59		6.7036		4.3037		44	*	MS
Copper	63		14.5375		8.0226		58	*	MS
Iron			15369.4576		14722.9542		4		P
Lead	208		12.5582		9.2922		30	*	MS
Lithium			17.7400		18.2727		3		P
Magnesium			3228.2515		3229.7547		0		P
Manganese			236.2538		274.6482		15		P
Mercury			0.0070	U	0.0070	U			CV
* Molybdenum	98	0.1	1.3314		0.3938		109	*	MS
Nickel	60		84.4448		11.0408		154	*	MS
Phosphorus			345.0190		317.4247		8		P
Potassium			2589.6169		2581.6246		0		P
Selenium	78		0.1596	B	0.1048	B	41		MS
* Silver	107	0.1	5.3815		0.1822		187	*	MS
Sodium			61.0680	B	60.0125	B	2		P
Strontium			13.2600		13.1068		1		P
Thallium	203	0.1	0.2801		0.1887		39		MS
Tin			2.4510	B	2.2938	B	7		P
Titanium			833.8931		862.5260		3		P
Vanadium	51		37.8800		25.3912		39	*	MS
Zinc	66		134.2858		91.0652		38	*	MS
Zirconium			2.4243	B	2.5034	B	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.

* Out by difference: Be 0.237 (≤0.194)
Mo 0.9376 (≤0.194)
Ag 5.1993 (≤0.194)
} J/UJ

DE207 4254

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.: DE207
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6354150BKG Serial Dilution Lab Sample ID: 6354150L
Batch ID(s): P21308B, P21326A, P21508A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		111075.2000		107958.5000		3		P
Antimony	121	1.8830		1.8500	U	100		MS
Arsenic	75	30.4000		24.3400		20		MS
Barium	137	550.3000		428.5000		22	E	MS
Beryllium	9	3.4830		2.7670		21		MS
Boron		26.5900	B	43.5500	B	64		P
Cadmium	111	2.1430		1.9695	B	8		MS
Calcium		19572.3700		20421.1000		4		P
Chromium	52	116.3000		101.4000		13	E	MS
Cobalt	59	34.5800		28.9300		16	E	MS
Copper	63	74.9900		61.5500		18	E	MS
Iron		155514.3200		163489.1500		5		P
Lead	208	64.7800		53.7000		17	E	MS
Lithium		179.5000		180.8500		1		P
Magnesium		32664.7400		33878.2500		4		P
Manganese		2390.5100		2494.1000		4		P
Molybdenum	98	6.8680		5.4250		21		MS
Nickel	60	435.6000		361.1000		17	E	MS
Phosphorus		3491.0400		3512.2000		1		P
Potassium		26202.7800		26232.1000		0		P
Selenium	78	0.8233	B	1.4500	U	100		MS
Silver	107	27.7600		23.0650		17	E	MS
Sodium		617.9100	B	503.4500	B	19		P
Strontium		134.1700		136.3000		2		P
Thallium	203	1.4450		1.2130	B	16		MS
Tin		24.8000	B	18.8500	B	24		P
Titanium		8272.2200		8706.8500		5		P
Vanadium	51	195.4000		169.6000		13	E	MS
Zinc	66	692.7000		588.0000		15	E	MS
Zirconium		24.5300	B	53.5000	B	118		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: DE267 4256
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE208

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3050B	6010B	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3050B	6020	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3060A	7199	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3550B	8081A	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3550B	8082	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3550B	8151A	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3550B	8270C	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	3550B	8270C SIM	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	METHOD	300.0	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	METHOD	314.0	IV
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355051	N	METHOD	7471A	IV
25-Jul-2011	TB-072511	6355064	TB	5030B	8015M	IV
25-Jul-2011	TB-072511	6355064	TB	5030B	8260B	IV
25-Jul-2011	TB-072511	6355064	TB	5030B	8260B SIM	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3050B	6010B	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3050B	6020	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3060A	7199	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3550B	8081A	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3550B	8082	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3550B	8151A	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3550B	8270C	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	3550B	8270C SIM	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	METHOD	300.0	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	METHOD	314.0	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	N	METHOD	6850	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355050	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*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Jul-2011	SL-235-SA6-SS-0.0-0.5MSD	P355050M241414A	MSD	METHOD	6850	IV
25-Jul-2011	SL-235-SA6-SS-0.0-0.5MS	P355050R241408A	MS	METHOD	6850	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3050B	6010B	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3050B	6020	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3060A	7199	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3550B	8015B	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3550B	8015M	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3550B	8082	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3550B	8270C	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	3550B	8270C SIM	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	5035	8015M	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	METHOD	300.0	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	METHOD	314.0	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	METHOD	6850	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	METHOD	7471A	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	METHOD	8015B	IV
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355062	N	METHOD	8015M	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3050B	6010B	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3050B	6020	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3060A	7199	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3546	1625C	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3550B	8015B	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3550B	8015M	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3550B	8081A	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3550B	8082	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	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
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3550B	8270C	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	3550B	8270C SIM	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	8330	8330A	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	300.0	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	314.0	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	7471A	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	8015B	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	8015M	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	8315A	IV
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355055	N	METHOD	9012B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3050B	6010B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3050B	6020	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3060A	7199	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3550B	8015B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3550B	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3550B	8082	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3550B	8270C	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	3550B	8270C SIM	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	5035	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	5035	8260B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	5035	8260B SIM	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	METHOD	300.0	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	METHOD	314.0	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	METHOD	7471A	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	METHOD	8015B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355058	N	METHOD	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
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3050B	6010B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3050B	6020	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3060A	7199	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3550B	8015B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3550B	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3550B	8082	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3550B	8270C	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	3550B	8270C SIM	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	5035	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	5035	8260B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	5035	8260B SIM	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	METHOD	300.0	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	METHOD	314.0	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	METHOD	7471A	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	METHOD	8015B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355059	MS	METHOD	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3050B	6010B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3050B	6020	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3550B	8015B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3550B	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3550B	8082	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3550B	8270C	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	3550B	8270C SIM	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	5035	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	5035	8260B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	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
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	METHOD	7471A	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	METHOD	8015B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355060	MSD	METHOD	8015M	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0DUP	6355061	DUP	3050B	6010B	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0DUP	6355061	DUP	3050B	6020	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0DUP	6355061	DUP	3060A	7199	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0DUP	6355061	DUP	METHOD	300.0	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0DUP	6355061	DUP	METHOD	314.0	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0DUP	6355061	DUP	METHOD	7471A	IV
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	P355058R211539B	MS	5035	8260B SIM	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3050B	6010B	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3050B	6020	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3060A	7199	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3550B	8015B	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3550B	8015M	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3550B	8082	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3550B	8270C	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	3550B	8270C SIM	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	5035	8015M	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	5035	8260B	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	5035	8260B SIM	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	METHOD	300.0	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	METHOD	314.0	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	METHOD	6850	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	METHOD	7471A	IV
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	METHOD	8015B	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
25-Jul-2011	DUP07-SA6-QC-072511	6355063	FD	METHOD	8015M	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3050B	6010B	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3050B	6020	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3060A	7199	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3546	1625C	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8015B	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8015M	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8081A	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8082	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8151A	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8270C	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	3550B	8270C SIM	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	8330	8330A	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	300.0	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	314.0	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	6850	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	7471A	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	8015B	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	8015M	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	8315A	IV
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355056	N	METHOD	9012B	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3050B	6010B	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3050B	6020	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3060A	7199	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3546	1625C	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8015B	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
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8015M	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8081A	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8082	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8151A	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8270C	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	3550B	8270C SIM	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	8330	8330A	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	300.0	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	314.0	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	7471A	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	8015B	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	8015M	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	8315A	IV
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355049	N	METHOD	9012B	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3050B	6010B	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3050B	6020	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3060A	7199	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3546	1625C	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8015B	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8015M	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8081A	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8082	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8151A	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8270C	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	3550B	8270C SIM	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	8330	8330A	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
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	300.0	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	314.0	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	7471A	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	8015B	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	8015M	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	8315A	IV
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355052	N	METHOD	9012B	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3050B	6010B	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3050B	6020	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3060A	7199	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3546	1625C	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8015B	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8015M	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8081A	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8082	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8151A	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8270C	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	3550B	8270C SIM	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	8330	8330A	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	300.0	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	314.0	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	7471A	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	8015B	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	8015M	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	8315A	IV
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355054	N	METHOD	9012B	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
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3050B	6010B	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3050B	6020	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3060A	7199	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3546	1625C	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8015B	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8015M	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8081A	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8082	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8151A	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8270C	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	3550B	8270C SIM	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	8330	8330A	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	300.0	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	314.0	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	7471A	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	8015B	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	8015M	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	8315A	IV
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355053	N	METHOD	9012B	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3050B	6010B	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3050B	6020	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3060A	7199	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3546	1625C	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3550B	8015B	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3550B	8015M	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	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
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3550B	8082	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3550B	8151A	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3550B	8270C	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	3550B	8270C SIM	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	8330	8330A	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	Gen Prep	314.0	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	METHOD	300.0	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	METHOD	7471A	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	METHOD	8015B	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	METHOD	8015M	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	METHOD	8315A	IV
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355057	N	METHOD	9012B	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3050B	6010B	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3050B	6020	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3060A	7199	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3546	1625C	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8015B	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8015M	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8081A	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8082	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8151A	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8270C	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	3550B	8270C SIM	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	8330	8330A	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	METHOD	300.0	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	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
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	METHOD	7471A	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	METHOD	8015B	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	METHOD	8015M	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	METHOD	8315A	IV
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355048	N	METHOD	9012B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3050B	6010B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3050B	6020	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3060A	7199	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3546	1625C	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8015B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8015M	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8081A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8082	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8151A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8270C	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	3550B	8270C SIM	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	8330	8330A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	300.0	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	314.0	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	7471A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	8015B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	8015M	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	8315A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355047	N	METHOD	9012B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5DUP	P355047D270814A	DUP	METHOD	9012B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5DUP	P355047D270915A	DUP	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
25-Jul-2011	SL-190-SA6-SS-0.0-0.5DUP	P355047D272045A	DUP	METHOD	300.0	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5MSD	P355047M240408A	MSD	METHOD	8315A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5MS	P355047R240358A	MS	METHOD	8315A	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5MS	P355047R270815A	MS	METHOD	9012B	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5MS	P355047R270938A	MS	METHOD	314.0	IV
25-Jul-2011	SL-190-SA6-SS-0.0-0.5MS	P355047R272059A	MS	METHOD	300.0	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*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: **SL-190-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 3:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: **SL-192-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 3:23:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.79	MDL	0.99	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.79	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: **SL-193-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:56:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.83	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.88	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: **SL-235-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-245-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 11:39:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: **SL-253-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:21:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.82	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-254-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-255-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-256-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.82	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.7		0.81	MDL	1.5	PQL	mg/Kg	J	E

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12400		6.26	MDL	20.7	PQL	mg/Kg	J	A
CALCIUM	5040		2.58	MDL	20.7	PQL	mg/Kg	J	E
TIN	2.35	J	0.331	MDL	10.3	PQL	mg/Kg	UJ	B, FD
Zirconium	2.01	J	0.476	MDL	5.17	PQL	mg/Kg	U	B

Sample ID: SL-098-SA6-SB-2.0-3.0 *Collected:* 7/25/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12600		6.33	MDL	20.9	PQL	mg/Kg	J	A
CALCIUM	7920		2.62	MDL	20.9	PQL	mg/Kg	J	E
TIN	0.489	J	0.335	MDL	10.5	PQL	mg/Kg	UJ	B, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-098-SA6-SB-2.0-3.0 *Collected:* 7/25/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.16	J	0.481	MDL	5.23	PQL	mg/Kg	U	B

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12600		6.02	MDL	19.9	PQL	mg/Kg	J	A
BORON	2.85	J	0.358	MDL	4.97	PQL	mg/Kg	U	B
CALCIUM	3500		2.49	MDL	19.9	PQL	mg/Kg	J	E
SODIUM	67.9	J	5.92	MDL	99.4	PQL	mg/Kg	J	Z
TIN	2.57	J	0.318	MDL	9.94	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.457	MDL	4.97	PQL	mg/Kg	U	B

Sample ID: SL-192-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:23:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12400		5.94	MDL	19.6	PQL	mg/Kg	J	A
BORON	1.81	J	0.353	MDL	4.91	PQL	mg/Kg	U	B
CALCIUM	1810		2.45	MDL	19.6	PQL	mg/Kg	J	E
SODIUM	61.8	J	5.84	MDL	98.2	PQL	mg/Kg	J	Z
TIN	2.24	J	0.314	MDL	9.82	PQL	mg/Kg	U	B
Zirconium	1.54	J	0.452	MDL	4.91	PQL	mg/Kg	U	B

Sample ID: SL-193-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14700		6.13	MDL	20.3	PQL	mg/Kg	J	A
BORON	1.32	J	0.365	MDL	5.07	PQL	mg/Kg	U	B
CALCIUM	2700		2.53	MDL	20.3	PQL	mg/Kg	J	E
SODIUM	68.7	J	6.03	MDL	101	PQL	mg/Kg	J	Z
TIN	2.24	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.39	J	0.466	MDL	5.07	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-235-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15100		5.90	MDL	19.5	PQL	mg/Kg	J	A
BORON	1.20	J	0.351	MDL	4.88	PQL	mg/Kg	U	B
CALCIUM	2620		2.44	MDL	19.5	PQL	mg/Kg	J	E
SODIUM	72.1	J	5.80	MDL	97.5	PQL	mg/Kg	J	Z
TIN	2.22	J	0.312	MDL	9.75	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.449	MDL	4.88	PQL	mg/Kg	U	B

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14300		5.93	MDL	19.6	PQL	mg/Kg	J	A
BORON	0.974	J	0.353	MDL	4.90	PQL	mg/Kg	U	B
CALCIUM	3020		2.45	MDL	19.6	PQL	mg/Kg	J	E
SODIUM	72.7	J	5.84	MDL	98.1	PQL	mg/Kg	J	Z
TIN	2.36	J	0.314	MDL	9.81	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.451	MDL	4.90	PQL	mg/Kg	U	B

Sample ID: **SL-245-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 11:39:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15500		5.87	MDL	19.4	PQL	mg/Kg	J	A
BORON	0.981	J	0.350	MDL	4.86	PQL	mg/Kg	U	B
CALCIUM	1910		2.43	MDL	19.4	PQL	mg/Kg	J	E
SODIUM	85.5	J	5.78	MDL	97.1	PQL	mg/Kg	J	Z
TIN	2.21	J	0.311	MDL	9.71	PQL	mg/Kg	U	B
Zirconium	2.51	J	0.447	MDL	4.86	PQL	mg/Kg	U	B

Sample ID: **SL-253-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:21:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15600		5.86	MDL	19.4	PQL	mg/Kg	J	A
BORON	1.16	J	0.349	MDL	4.85	PQL	mg/Kg	U	B
CALCIUM	1970		2.42	MDL	19.4	PQL	mg/Kg	J	E
SODIUM	86.7	J	5.77	MDL	96.9	PQL	mg/Kg	J	Z
TIN	2.47	J	0.310	MDL	9.69	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-253-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:21:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.32	J	0.446	MDL	4.85	PQL	mg/Kg	U	B

Sample ID: **SL-254-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15500		5.98	MDL	19.8	PQL	mg/Kg	J	A
BORON	0.856	J	0.356	MDL	4.94	PQL	mg/Kg	U	B
CALCIUM	2180		2.47	MDL	19.8	PQL	mg/Kg	J	E
SODIUM	69.5	J	5.88	MDL	98.8	PQL	mg/Kg	J	Z
TIN	3.31	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	2.45	J	0.454	MDL	4.94	PQL	mg/Kg	U	B

Sample ID: **SL-255-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 9:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13900		5.88	MDL	19.4	PQL	mg/Kg	J	A
BORON	0.931	J	0.350	MDL	4.86	PQL	mg/Kg	U	B
CALCIUM	1590		2.43	MDL	19.4	PQL	mg/Kg	J	E
TIN	2.24	J	0.311	MDL	9.72	PQL	mg/Kg	U	B
Zirconium	1.76	J	0.447	MDL	4.86	PQL	mg/Kg	U	B

Sample ID: **SL-256-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15300		6.06	MDL	20.0	PQL	mg/Kg	J	A
BORON	1.87	J	0.360	MDL	5.01	PQL	mg/Kg	U	B
CALCIUM	2960		2.50	MDL	20.0	PQL	mg/Kg	J	E
SODIUM	79.0	J	5.96	MDL	100	PQL	mg/Kg	J	Z
TIN	2.40	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.49	J	0.461	MDL	5.01	PQL	mg/Kg	U	B

Sample ID: **SL-268-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:53:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13100		5.87	MDL	19.4	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.762	J	0.349	MDL	4.85	PQL	mg/Kg	U	B
CALCIUM	2440		2.42	MDL	19.4	PQL	mg/Kg	J	E
SODIUM	61.1	J	5.77	MDL	97.0	PQL	mg/Kg	J	Z
TIN	1.13	J	0.310	MDL	9.70	PQL	mg/Kg	U	B
Zirconium	1.54	J	0.446	MDL	4.85	PQL	mg/Kg	U	B

Sample ID: SL-289-SA6-SB-3.5-4.5 *Collected:* 7/25/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14700		6.38	MDL	21.1	PQL	mg/Kg	J	A
BORON	1.45	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
CALCIUM	10200		2.63	MDL	21.1	PQL	mg/Kg	J	E
TIN	2.19	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.485	MDL	5.27	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 10:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.35		0.0517	MDL	0.103	PQL	mg/Kg	J	Q, FD

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0765	MDL	0.207	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	6.88		0.0827	MDL	0.414	PQL	mg/Kg	J	Q
BERYLLIUM	0.784		0.0165	MDL	0.103	PQL	mg/Kg	J	Q
CADMIUM	0.141		0.0455	MDL	0.103	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP07-SA6-QC-072511 **Collected:** 7/25/2011 10:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	29.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	9.68		0.0207	MDL	0.103	PQL	mg/Kg	J	E
COPPER	12.7		0.0827	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	6.36		0.0105	MDL	0.207	PQL	mg/Kg	J	Q
NICKEL	19.1		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0319	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.388		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	52.3		0.0227	MDL	0.103	PQL	mg/Kg	J	Q, A

Sample ID: SL-098-SA6-SB-2.0-3.0 **Collected:** 7/25/2011 9:50:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.158	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z, Q

Sample ID: SL-098-SA6-SB-2.0-3.0 **Collected:** 7/25/2011 9:50:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.684		0.0508	MDL	0.102	PQL	mg/Kg	J	Q, FD

Sample ID: SL-098-SA6-SB-2.0-3.0 **Collected:** 7/25/2011 9:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0752	MDL	0.203	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.12		0.0813	MDL	0.407	PQL	mg/Kg	J	Q
BERYLLIUM	0.533		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.196		0.0447	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	20.4		0.122	MDL	0.407	PQL	mg/Kg	J	Q
COBALT	6.76		0.0203	MDL	0.102	PQL	mg/Kg	J	E
COPPER	11.1		0.0813	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	6.83		0.0104	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	14.0		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0373	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.295		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	37.9		0.0224	MDL	0.102	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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	0.246	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:51:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.07		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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	0.310		0.0751	MDL	0.203	PQL	mg/Kg	J	Q, Q
ARSENIC	6.24		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.695		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.473		0.0446	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	20.7		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	7.86		0.0203	MDL	0.101	PQL	mg/Kg	J	E
COPPER	13.5		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	27.8		0.0103	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	15.1		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	1.68		0.0144	MDL	0.101	PQL	mg/Kg	J	Q
THALLIUM	0.352		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	34.0		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-192-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:23:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.256	J	0.0575	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: SL-192-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:23:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.834		0.0496	MDL	0.0991	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-192-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 3:23:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.130	J	0.0734	MDL	0.198	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.50		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.603		0.0159	MDL	0.0991	PQL	mg/Kg	J	Q
CADMIUM	0.320		0.0436	MDL	0.0991	PQL	mg/Kg	J	Q, E
CHROMIUM	14.0		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	6.33		0.0198	MDL	0.0991	PQL	mg/Kg	J	E
COPPER	7.42		0.0793	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	10.9		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	9.54		0.0991	MDL	0.397	PQL	mg/Kg	J	Q
SILVER	0.0478	J	0.0141	MDL	0.0991	PQL	mg/Kg	J	Z, Q
THALLIUM	0.292		0.0297	MDL	0.0991	PQL	mg/Kg	J	Q
VANADIUM	27.3		0.0218	MDL	0.0991	PQL	mg/Kg	J	Q, A

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 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	0.221	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z, Q

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 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	0.890		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 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	0.193	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.59		0.0795	MDL	0.397	PQL	mg/Kg	J	Q
BERYLLIUM	0.838		0.0159	MDL	0.0993	PQL	mg/Kg	J	Q
CADMIUM	0.385		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q, E
CHROMIUM	23.4		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COBALT	7.43		0.0199	MDL	0.0993	PQL	mg/Kg	J	E
COPPER	15.8		0.0795	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	11.4		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
NICKEL	15.7		0.0993	MDL	0.397	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory:** LL

EDD Filename: PrepDE208_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 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
SILVER	0.0605	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z, Q
THALLIUM	0.400		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q
VANADIUM	40.6		0.0219	MDL	0.0993	PQL	mg/Kg	J	Q, A

Sample ID: SL-235-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 8:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0588	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-235-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 8:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.545		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0993	J	0.0751	MDL	0.203	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	6.32		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
BERYLLIUM	0.680		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.206		0.0446	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	20.9		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	6.34		0.0203	MDL	0.101	PQL	mg/Kg	J	E
COPPER	11.5		0.0811	MDL	0.406	PQL	mg/Kg	J	Q
LEAD	11.8		0.0103	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	15.9		0.101	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0905	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.283		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	34.1		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-236-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 7:52:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0569	MDL	0.392	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.655		0.0490	MDL	0.0981	PQL	mg/Kg	J	Q

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0726	MDL	0.196	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	4.82		0.0785	MDL	0.392	PQL	mg/Kg	J	Q
BERYLLIUM	0.564		0.0157	MDL	0.0981	PQL	mg/Kg	J	Q
CADMIUM	0.267		0.0431	MDL	0.0981	PQL	mg/Kg	J	Q, E
CHROMIUM	20.2		0.118	MDL	0.392	PQL	mg/Kg	J	Q
COBALT	6.75		0.0196	MDL	0.0981	PQL	mg/Kg	J	E
COPPER	10.9		0.0785	MDL	0.392	PQL	mg/Kg	J	Q
LEAD	12.0		0.0100	MDL	0.196	PQL	mg/Kg	J	Q
NICKEL	16.1		0.0981	MDL	0.392	PQL	mg/Kg	J	Q
SILVER	0.0925	J	0.0139	MDL	0.0981	PQL	mg/Kg	J	Z, Q
THALLIUM	0.289		0.0294	MDL	0.0981	PQL	mg/Kg	J	Q
VANADIUM	35.3		0.0216	MDL	0.0981	PQL	mg/Kg	J	Q, A

Sample ID: **SL-245-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 11:39:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.532		0.0563	MDL	0.388	PQL	mg/Kg	J	Q

Sample ID: **SL-245-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 11:39:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.791		0.0486	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: **SL-245-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 11:39:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.137	J	0.0719	MDL	0.194	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.42		0.0777	MDL	0.388	PQL	mg/Kg	J	Q
BERYLLIUM	0.738		0.0155	MDL	0.0971	PQL	mg/Kg	J	Q
CADMIUM	0.508		0.0427	MDL	0.0971	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-245-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 11:39:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	21.9		0.117	MDL	0.388	PQL	mg/Kg	J	Q
COBALT	6.28		0.0194	MDL	0.0971	PQL	mg/Kg	J	E
COPPER	11.9		0.0777	MDL	0.388	PQL	mg/Kg	J	Q
LEAD	11.2		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
NICKEL	14.5		0.0971	MDL	0.388	PQL	mg/Kg	J	Q
SILVER	0.0697	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z, Q
THALLIUM	0.335		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	37.5		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q, A

Sample ID: SL-253-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:21:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z, Q

Sample ID: SL-253-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:21:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.648		0.0494	MDL	0.0988	PQL	mg/Kg	J	Q

Sample ID: SL-253-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:21:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.38		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
BERYLLIUM	0.663		0.0158	MDL	0.0988	PQL	mg/Kg	J	Q
CADMIUM	0.320		0.0435	MDL	0.0988	PQL	mg/Kg	J	Q, E
CHROMIUM	15.3		0.119	MDL	0.395	PQL	mg/Kg	J	Q
COBALT	4.94		0.0198	MDL	0.0988	PQL	mg/Kg	J	E
COPPER	8.14		0.0791	MDL	0.395	PQL	mg/Kg	J	Q
LEAD	6.96		0.0101	MDL	0.198	PQL	mg/Kg	J	Q
NICKEL	9.94		0.0988	MDL	0.395	PQL	mg/Kg	J	Q
SILVER	0.0559	J	0.0140	MDL	0.0988	PQL	mg/Kg	J	Z, Q
THALLIUM	0.281		0.0296	MDL	0.0988	PQL	mg/Kg	J	Q
VANADIUM	28.9		0.0217	MDL	0.0988	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-254-SA6-SS-0.0-0.5 **Collected: 7/25/2011 1:45:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.203	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-254-SA6-SS-0.0-0.5 **Collected: 7/25/2011 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	0.580		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-254-SA6-SS-0.0-0.5 **Collected: 7/25/2011 1:45:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.130	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.39		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
BERYLLIUM	0.630		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.393		0.0443	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	18.2		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	5.69		0.0202	MDL	0.101	PQL	mg/Kg	J	E
COPPER	8.63		0.0806	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	10.2		0.0103	MDL	0.202	PQL	mg/Kg	J	Q
NICKEL	14.1		0.101	MDL	0.403	PQL	mg/Kg	J	Q
SILVER	0.0607	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.300		0.0302	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	33.7		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, A

Sample ID: SL-255-SA6-SS-0.0-0.5 **Collected: 7/25/2011 9:35:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0564	MDL	0.389	PQL	mg/Kg	J	Z, Q

Sample ID: SL-255-SA6-SS-0.0-0.5 **Collected: 7/25/2011 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
MOLYBDENUM	0.716		0.0486	MDL	0.0972	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-255-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 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	0.0753	J	0.0719	MDL	0.194	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.23		0.0778	MDL	0.389	PQL	mg/Kg	J	Q
BERYLLIUM	0.673		0.0156	MDL	0.0972	PQL	mg/Kg	J	Q
CADMIUM	0.205		0.0428	MDL	0.0972	PQL	mg/Kg	J	Q, E
CHROMIUM	14.7		0.117	MDL	0.389	PQL	mg/Kg	J	Q
COBALT	5.23		0.0194	MDL	0.0972	PQL	mg/Kg	J	E
COPPER	10.2		0.0778	MDL	0.389	PQL	mg/Kg	J	Q
LEAD	7.03		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
NICKEL	9.26		0.0972	MDL	0.389	PQL	mg/Kg	J	Q
SILVER	0.0441	J	0.0138	MDL	0.0972	PQL	mg/Kg	J	Z, Q
THALLIUM	0.293		0.0292	MDL	0.0972	PQL	mg/Kg	J	Q
VANADIUM	28.3		0.0214	MDL	0.0972	PQL	mg/Kg	J	Q, A

Sample ID: **SL-256-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 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	0.218	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-256-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 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	0.703		0.0501	MDL	0.100	PQL	mg/Kg	J	Q

Sample ID: **SL-256-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.107	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	6.02		0.0801	MDL	0.400	PQL	mg/Kg	J	Q
BERYLLIUM	0.690		0.0160	MDL	0.100	PQL	mg/Kg	J	Q
CADMIUM	0.233		0.0440	MDL	0.100	PQL	mg/Kg	J	Q, E
CHROMIUM	17.9		0.120	MDL	0.400	PQL	mg/Kg	J	Q
COBALT	5.87		0.0200	MDL	0.100	PQL	mg/Kg	J	E
COPPER	9.04		0.0801	MDL	0.400	PQL	mg/Kg	J	Q
LEAD	8.60		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
NICKEL	11.7		0.100	MDL	0.400	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-256-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0441	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.358		0.0300	MDL	0.100	PQL	mg/Kg	J	Q
VANADIUM	33.8		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, A

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* REA *Dilution:* 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	3080		0.499	MDL	9.79	PQL	mg/Kg	J	Q

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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	0.626		0.0568	MDL	0.392	PQL	mg/Kg	J	Q

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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	0.955		0.0490	MDL	0.0979	PQL	mg/Kg	J	Q

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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	0.534		0.0725	MDL	0.196	PQL	mg/Kg	J	Q, Q
ARSENIC	6.76		0.0784	MDL	0.392	PQL	mg/Kg	J	Q
BERYLLIUM	0.536		0.0157	MDL	0.0979	PQL	mg/Kg	J	Q
CADMIUM	1.07		0.0431	MDL	0.0979	PQL	mg/Kg	J	Q, E
CHROMIUM	15.7		0.118	MDL	0.392	PQL	mg/Kg	J	Q
COBALT	5.21		0.0196	MDL	0.0979	PQL	mg/Kg	J	E
COPPER	21.1		0.0784	MDL	0.392	PQL	mg/Kg	J	Q
NICKEL	12.1		0.0979	MDL	0.392	PQL	mg/Kg	J	Q
SILVER	3.39		0.0139	MDL	0.0979	PQL	mg/Kg	J	Q
THALLIUM	0.240		0.0294	MDL	0.0979	PQL	mg/Kg	J	Q
VANADIUM	26.9		0.0215	MDL	0.0979	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory:** LL

EDD Filename: PrepDE208_v2 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-289-SA6-SB-3.5-4.5 **Collected:** 7/25/2011 8:30:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0588	MDL	0.405	PQL	mg/Kg	J	Z, Q

Sample ID: SL-289-SA6-SB-3.5-4.5 **Collected:** 7/25/2011 8:30:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.638		0.0507	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-289-SA6-SB-3.5-4.5 **Collected:** 7/25/2011 8:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.131	J	0.0750	MDL	0.203	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.02		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
BERYLLIUM	0.618		0.0162	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.225		0.0446	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	23.9		0.122	MDL	0.405	PQL	mg/Kg	J	Q
COBALT	7.55		0.0203	MDL	0.101	PQL	mg/Kg	J	E
COPPER	11.5		0.0811	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	7.20		0.0103	MDL	0.203	PQL	mg/Kg	J	Q
NICKEL	15.0		0.101	MDL	0.405	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.277		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	44.4		0.0223	MDL	0.101	PQL	mg/Kg	J	Q, A

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

Sample ID: DUP07-SA6-QC-072511 **Collected:** 7/25/2011 10:00:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-098-SA6-SB-2.0-3.0 **Collected:** 7/25/2011 9:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.97	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: **SL-193-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:56:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-235-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-245-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 11:39:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-253-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:21:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-254-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-256-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: **SL-268-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:53:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory:** LL

EDD Filename: PrepDE208_v2 **eQAPP Name:** CDM_SSFL_110509

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

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

Sample ID: DUP07-SA6-QC-072511 ***Collected:*** 7/25/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	U	0.0074	MDL	0.106	PQL	mg/Kg	UJ	FD

Sample ID: SL-098-SA6-SB-2.0-3.0 ***Collected:*** 7/25/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0257	J	0.0070	MDL	0.0990	PQL	mg/Kg	J	Z, FD

Sample ID: SL-190-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 3:51:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0582	J	0.0068	MDL	0.0970	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 3:23:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0193	J	0.0070	MDL	0.0990	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 10:56:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0131	J	0.0067	MDL	0.0955	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0067	MDL	0.0950	PQL	mg/Kg	J	Z

Sample ID: SL-245-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 11:39:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0202	J	0.0069	MDL	0.0988	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-253-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 2:21:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0182	J	0.0068	MDL	0.0967	PQL	mg/Kg	J	Z

Sample ID: SL-254-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 1:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0115	J	0.0069	MDL	0.0982	PQL	mg/Kg	J	Z

Sample ID: SL-256-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 10:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0071	J	0.0070	MDL	0.0993	PQL	mg/Kg	J	Z

Sample ID: SL-289-SA6-SB-3.5-4.5 **Collected:** 7/25/2011 8:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0242	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-193-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 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
N-NITROSODIMETHYLAMINE	17.0	J	16.7	MDL	33.3	PQL	ng/Kg	U	B

Sample ID: SL-253-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 2:21:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	17.2	J	16.7	MDL	33.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: DUP07-SA6-QC-072511 ***Collected:*** 7/25/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.5		0.43	MDL	1.3	PQL	mg/Kg	J	FD
EFH (C30-C40)	3.1		0.43	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-098-SA6-SB-2.0-3.0 ***Collected:*** 7/25/2011 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)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	FD
EFH (C30-C40)	0.65	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z, Q, Q, FD

Sample ID: SL-098-SA6-SB-2.0-3.0 ***Collected:*** 7/25/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-190-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 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
EFH (C8-C11)	0.59	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 10:56:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.85	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-245-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 11:39:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.65	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-253-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 2:21:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C8-C11)	0.42	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-255-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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
EFH (C15-C20)	0.67	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.43	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-256-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.99	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.44	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	10	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:51:00 *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'-DDT	13		0.67	MDL	3.4	PQL	ug/Kg	J	C
ENDOSULFAN II	3.9	U	3.9	MDL	3.9	PQL	ug/Kg	UJ	C, C

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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
4,4'-DDE	2.1		0.067	MDL	0.34	PQL	ug/Kg	J	*#
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C
gamma-BHC (Lindane)	0.11	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-192-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 3:23:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.83		0.067	MDL	0.34	PQL	ug/Kg	J	C
ENDOSULFAN II	0.35	U	0.35	MDL	0.35	PQL	ug/Kg	UJ	C, C
ENDRIN KETONE	0.55	U	0.55	MDL	0.55	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: SL-193-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 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
4,4'-DDT	0.30	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: SL-235-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.13	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
4,4'-DDT	0.21	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: SL-236-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 7:52:00 ***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'-DDE	0.14	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
4,4'-DDT	0.22	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: SL-245-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 11:39:00 ***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	0.13	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, *XIII
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: **SL-253-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:21:00** ***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'-DDE	0.23	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, *XIII
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: **SL-254-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 1:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	1.0		0.067	MDL	0.34	PQL	ug/Kg	J	C
ALPHA-BHC	0.14	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C, C
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
MIREX	0.18	U	0.18	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: **SL-255-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 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
4,4'-DDT	0.20	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: **SL-256-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:20:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	0.49	U	0.49	MDL	0.49	PQL	ug/Kg	UJ	C
Chlordane	5.4		0.81	MDL	3.4	PQL	ug/Kg	J	*XIII
ENDOSULFAN II	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C, C
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	C
MIREX	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	C

Sample ID: **SL-268-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 2:53:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
4,4'-DDE	0.40	U	0.40	MDL	0.40	PQL	ug/Kg	UJ	S
4,4'-DDT	2.4		0.067	MDL	0.34	PQL	ug/Kg	J	S, S, C, *XIII

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-268-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 2:53:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.071	U	0.071	MDL	0.17	PQL	ug/Kg	UJ	S
BETA-BHC	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
Chlordane	10		0.81	MDL	3.4	PQL	ug/Kg	J	S, S
DELTA-BHC	0.036	U	0.036	MDL	0.17	PQL	ug/Kg	UJ	S
DIELDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.79	U	0.79	MDL	0.79	PQL	ug/Kg	UJ	S, C, C
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	S, C
gamma-BHC (Lindane)	0.080	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z, S, S
HEPTACHLOR	0.061	U	0.061	MDL	0.17	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.49	U	0.49	MDL	0.49	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.69	U	0.69	MDL	1.7	PQL	ug/Kg	UJ	S, C
MIREX	0.51	U	0.51	MDL	0.51	PQL	ug/Kg	UJ	S, C
TOXAPHENE	44	U	44	MDL	44	PQL	ug/Kg	UJ	S

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP07-SA6-QC-072511 ***Collected:*** 7/25/2011 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 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
Aroclor 5460	1.1	U	1.1	MDL	3.5	PQL	ug/Kg	UJ	FD

Sample ID: SL-098-SA6-SB-2.0-3.0 ***Collected:*** 7/25/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.7	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD
Aroclor 5460	3.4	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-190-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 3:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **10**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5432	10	U	10	MDL	33	PQL	ug/Kg	UJ	C
Aroclor 5442	10	U	10	MDL	33	PQL	ug/Kg	UJ	C
Aroclor 5460	10	U	10	MDL	33	PQL	ug/Kg	UJ	C

Sample ID: **SL-192-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 3:23:00** ***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 1016	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
AROCLOR 1260	2.3		0.39	MDL	1.7	PQL	ug/Kg	J	S
Aroclor 1262	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
Aroclor 1268	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	S
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	S
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	S
Aroclor 5460	3.0	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z, S

Sample ID: **SL-235-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 8:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.82	J	0.40	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	2.3	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***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	0.83	J	0.39	MDL	1.7	PQL	ug/Kg	J	Z
Aroclor 5460	1.9	J	1.0	MDL	3.3	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: **SL-190-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 3:51:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.1		0.63	MDL	1.7	PQL	ug/Kg	J	*IX
MCPA	77	U	77	MDL	250	PQL	ug/Kg	UJ	C
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: **SL-192-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 3:23:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	2.8		0.62	MDL	1.7	PQL	ug/Kg	J	*IX
DICHLOROPROP	0.85	J	0.80	MDL	1.7	PQL	ug/Kg	J	Z, *IX
MCPA	540	U	540	MDL	540	PQL	ug/Kg	UJ	C
MCPP	75	U	75	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: **SL-193-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 10:56:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.11	J	0.076	MDL	0.17	PQL	ug/Kg	J	Z
MCPA	77	U	77	MDL	250	PQL	ug/Kg	UJ	C
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: **SL-235-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 8:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	77	U	77	MDL	250	PQL	ug/Kg	UJ	C
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: **SL-236-SA6-SS-0.0-0.5** ***Collected:*** **7/25/2011 7:52:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	3.0		0.62	MDL	1.7	PQL	ug/Kg	J	*IX
MCPA	76	U	76	MDL	250	PQL	ug/Kg	UJ	C
MCPP	75	U	75	MDL	250	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-245-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 11:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	170	U	170	MDL	250	PQL	ug/Kg	UJ	C
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: SL-253-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.1	J	0.62	MDL	1.7	PQL	ug/Kg	J	Z, *IX
MCPA	170	U	170	MDL	250	PQL	ug/Kg	UJ	C
MCPP	75	U	75	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: SL-254-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	75	U	75	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: SL-255-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: SL-256-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	76	U	76	MDL	250	PQL	ug/Kg	UJ	C

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	75	U	75	MDL	250	PQL	ug/Kg	UJ	C

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-098-SA6-SB-2.0-3.0 *Collected:* 7/25/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-CHLOROPHENYL-PHENYLETHER	35	U	35	MDL	180	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	UJ	Q

Sample ID: SL-235-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	22	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-255-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	190	J	170	MDL	1700	PQL	ug/Kg	J	Z
CHRYSENE	350	J	170	MDL	1700	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 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
ANTHRACENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD
Butylbenzylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	R	L
CHRYSENE	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	L
Di-n-octylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	L, FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 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
PYRENE	0.71	U	0.71	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-098-SA6-SB-2.0-3.0 *Collected:* 7/25/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.8	U	1.8	MDL	8.8	PQL	ug/Kg	UJ	L
BENZO(A)PYRENE	5.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L, FD
BENZO(B)FLUORANTHENE	6.7	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L, FD
BENZO(G,H,I)PERYLENE	4.9	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L, FD
BENZO(K)FLUORANTHENE	5.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L, FD
CHRYSENE	5.7	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z, L, FD
Di-n-octylphthalate	60	J	32	MDL	95	PQL	ug/Kg	J	Z, L, FD
FLUORANTHENE	4.1	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L, FD
PYRENE	4.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-190-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.70	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, L
BENZO(A)PYRENE	1.9		0.68	MDL	1.7	PQL	ug/Kg	J	L
BENZO(B)FLUORANTHENE	5.3		0.68	MDL	1.7	PQL	ug/Kg	J	L
BENZO(G,H,I)PERYLENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z, L
BENZO(K)FLUORANTHENE	2.3		0.68	MDL	1.7	PQL	ug/Kg	J	L
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	7.8		0.34	MDL	1.7	PQL	ug/Kg	J	L
Di-n-butylphthalate	6.3	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
Di-n-octylphthalate	13	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
FLUORANTHENE	5.4		0.68	MDL	1.7	PQL	ug/Kg	J	L
INDENO(1,2,3-CD)PYRENE	0.91	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z, L
PHENANTHRENE	4.0		0.68	MDL	1.7	PQL	ug/Kg	J	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-192-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 3:23:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	28		6.1	MDL	18	PQL	ug/Kg	J	L
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	L
Di-n-octylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
FLUORANTHENE	0.67	U	0.67	MDL	1.7	PQL	ug/Kg	UJ	L

Sample ID: SL-193-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:56:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	L
CHRYSENE	3.8	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z, L
Di-n-octylphthalate	79	J	30	MDL	91	PQL	ug/Kg	J	Z, L
FLUORANTHENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	L

Sample ID: SL-235-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	L
BENZO(B)FLUORANTHENE	1.0	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z, L
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	0.85	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	L
FLUORANTHENE	0.92	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z, L
PYRENE	0.87	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-236-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 7:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.41	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, L
BENZO(A)ANTHRACENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L
BENZO(B)FLUORANTHENE	2.2		0.67	MDL	1.7	PQL	ug/Kg	J	L
BENZO(K)FLUORANTHENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-236-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 7:52:00 ***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	14	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	1.8		0.34	MDL	1.7	PQL	ug/Kg	J	L
Di-n-butylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	L
Di-n-octylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
FLUORANTHENE	2.2		0.67	MDL	1.7	PQL	ug/Kg	J	L
PHENANTHRENE	1.2	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L

Sample ID: SL-245-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 11:39:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	L
CHRYSENE	2.3	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z, L
FLUORANTHENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	L

Sample ID: SL-253-SA6-SS-0.0-0.5 ***Collected:*** 7/25/2011 2:21:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.84	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L
ACENAPHTHYLENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	3.7		0.34	MDL	1.7	PQL	ug/Kg	J	L
BENZO(A)PYRENE	2.0		0.67	MDL	1.7	PQL	ug/Kg	J	L
BENZO(B)FLUORANTHENE	2.1		0.67	MDL	1.7	PQL	ug/Kg	J	L
BENZO(G,H,I)PERYLENE	2.4		0.67	MDL	1.7	PQL	ug/Kg	J	L
BENZO(K)FLUORANTHENE	1.9		0.67	MDL	1.7	PQL	ug/Kg	J	L
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.0	MDL	18	PQL	ug/Kg	J	Z, L
Butylbenzylphthalate	6.0	U	6.0	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	2.7		0.34	MDL	1.7	PQL	ug/Kg	J	L
DIBENZO(A,H)ANTHRACENE	1.8		0.67	MDL	1.7	PQL	ug/Kg	J	L
Di-n-butylphthalate	6.8	J	6.0	MDL	18	PQL	ug/Kg	J	Z, L
Di-n-octylphthalate	20		6.0	MDL	18	PQL	ug/Kg	J	L
FLUORANTHENE	3.7		0.67	MDL	1.7	PQL	ug/Kg	J	L
FLUORENE	2.8		0.67	MDL	1.7	PQL	ug/Kg	J	L
INDENO(1,2,3-CD)PYRENE	2.0		0.67	MDL	1.7	PQL	ug/Kg	J	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

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

Sample ID: SL-253-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 2:21:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	3.7		0.67	MDL	1.7	PQL	ug/Kg	J	L

Sample ID: SL-254-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 1:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	U	1.7	MDL	8.4	PQL	ug/Kg	UJ	L
CHRYSENE	3.6	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z, L
Diethylphthalate	46	J	30	MDL	91	PQL	ug/Kg	J	Z
FLUORANTHENE	3.4	U	3.4	MDL	8.4	PQL	ug/Kg	UJ	L

Sample ID: SL-255-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 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
2-METHYLNAPHTHALENE	0.91	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	L
BENZO(B)FLUORANTHENE	0.88	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	1.3	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z, L
Di-n-butylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	L
FLUORANTHENE	2.6		0.67	MDL	1.7	PQL	ug/Kg	J	L
PHENANTHRENE	2.7		0.67	MDL	1.7	PQL	ug/Kg	J	L
PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-256-SA6-SS-0.0-0.5 **Collected:** 7/25/2011 10:20:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	0.99	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.92	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L
BENZO(B)FLUORANTHENE	1.8		0.67	MDL	1.7	PQL	ug/Kg	J	L
BENZO(G,H,I)PERYLENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
Butylbenzylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	R	L
CHRYSENE	1.7		0.34	MDL	1.7	PQL	ug/Kg	J	L
Di-n-butylphthalate	6.1	U	6.1	MDL	18	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-256-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z, L
FLUORANTHENE	2.4		0.67	MDL	1.7	PQL	ug/Kg	J	L
NAPHTHALENE	0.68	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.4	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z, L
PYRENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:53:00 *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	22		1.7	MDL	8.4	PQL	ug/Kg	J	L
BENZO(A)PYRENE	210		3.4	MDL	8.4	PQL	ug/Kg	J	L
BENZO(B)FLUORANTHENE	360		3.4	MDL	8.4	PQL	ug/Kg	J	L
BENZO(K)FLUORANTHENE	130		3.4	MDL	8.4	PQL	ug/Kg	J	L
Butylbenzylphthalate	30	U	30	MDL	91	PQL	ug/Kg	R	L
DIBENZO(A,H)ANTHRACENE	21		3.4	MDL	8.4	PQL	ug/Kg	J	L
Di-n-butylphthalate	30	U	30	MDL	91	PQL	ug/Kg	UJ	L
FLUORANTHENE	530		3.4	MDL	8.4	PQL	ug/Kg	J	L
INDENO(1,2,3-CD)PYRENE	60		3.4	MDL	8.4	PQL	ug/Kg	J	L
PHENANTHRENE	45		3.4	MDL	8.4	PQL	ug/Kg	J	L

Sample ID: SL-289-SA6-SB-3.5-4.5 *Collected:* 7/25/2011 8:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.8	U	1.8	MDL	8.8	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	3.9	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L
BENZO(B)FLUORANTHENE	12		3.5	MDL	8.8	PQL	ug/Kg	J	L
BENZO(G,H,I)PERYLENE	4.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L
BENZO(K)FLUORANTHENE	4.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z, L
CHRYSENE	14		1.8	MDL	8.8	PQL	ug/Kg	J	L
Di-n-octylphthalate	64	J	32	MDL	95	PQL	ug/Kg	J	Z, L
FLUORANTHENE	3.5	U	3.5	MDL	8.8	PQL	ug/Kg	UJ	L
PYRENE	4.4	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-253-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 2:21:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	680	J	600	MDL	1500	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-193-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 10:56:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	210	J	100	MDL	510	PQL	ug/Kg	J	Z

Sample ID: SL-268-SA6-SS-0.0-0.5 *Collected:* 7/25/2011 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
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	S

Method Category: VOA

Method: 8260B **Matrix: AQ**

Sample ID: TB-072511 *Collected:* 7/25/2011 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
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: DUP07-SA6-QC-072511 *Collected:* 7/25/2011 10:00:00 *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	0.51	U	0.51	MDL	5.1	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	2.7	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

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

Sample ID: SL-098-SA6-SB-2.0-3.0 ***Collected:*** 7/25/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 0.97

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2-Chloro-1,1,1-trifluoroethane	0.51	U	0.51	MDL	5.2	PQL	ug/Kg	UJ	C
METHYLENE CHLORIDE	3.1	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*IX, 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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: PrepDE208_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE208

Method Blank Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLA21B261345	8/10/2011 1:45:00 PM	N-NITROSODIMETHYLAMINE	40.2 ng/Kg	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5

The 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-193-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	17.0 ng/Kg	33.3U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	N-NITROSODIMETHYLAMINE	17.2 ng/Kg	33.4U ng/Kg

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21008DB220613	8/3/2011 6:13:00 AM	ALUMINUM BORON CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN Zirconium	6.17 mg/Kg 0.807 mg/Kg 13.3 mg/Kg 5.73 mg/Kg 0.0420 mg/Kg 1.25 mg/Kg 0.0750 mg/Kg 1.67 mg/Kg 0.557 mg/Kg	DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA6-QC-072511(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
DUP07-SA6-QC-072511(RES)	Zirconium	2.01 mg/Kg	2.01U mg/Kg
SL-098-SA6-SB-2.0-3.0(RES)	TIN	0.489 mg/Kg	0.489U mg/Kg
SL-098-SA6-SB-2.0-3.0(RES)	Zirconium	2.16 mg/Kg	2.16U mg/Kg
SL-190-SA6-SS-0.0-0.5(RES)	BORON	2.85 mg/Kg	2.85U mg/Kg
SL-190-SA6-SS-0.0-0.5(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-190-SA6-SS-0.0-0.5(RES)	Zirconium	1.83 mg/Kg	1.83U mg/Kg
SL-192-SA6-SS-0.0-0.5(RES)	BORON	1.81 mg/Kg	1.81U mg/Kg
SL-192-SA6-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-192-SA6-SS-0.0-0.5(RES)	Zirconium	1.54 mg/Kg	1.54U mg/Kg
SL-193-SA6-SS-0.0-0.5(RES)	BORON	1.32 mg/Kg	1.32U mg/Kg
SL-193-SA6-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-193-SA6-SS-0.0-0.5(RES)	Zirconium	2.39 mg/Kg	2.39U mg/Kg
SL-235-SA6-SS-0.0-0.5(RES)	BORON	1.20 mg/Kg	1.20U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **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-235-SA6-SS-0.0-0.5(RES)	TIN	2.22 mg/Kg	2.22U mg/Kg
SL-235-SA6-SS-0.0-0.5(RES)	Zirconium	2.03 mg/Kg	2.03U mg/Kg
SL-236-SA6-SS-0.0-0.5(RES)	BORON	0.974 mg/Kg	0.974U mg/Kg
SL-236-SA6-SS-0.0-0.5(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-236-SA6-SS-0.0-0.5(RES)	Zirconium	2.59 mg/Kg	2.59U mg/Kg
SL-245-SA6-SS-0.0-0.5(RES)	BORON	0.981 mg/Kg	0.981U mg/Kg
SL-245-SA6-SS-0.0-0.5(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-245-SA6-SS-0.0-0.5(RES)	Zirconium	2.51 mg/Kg	2.51U mg/Kg
SL-253-SA6-SS-0.0-0.5(RES)	BORON	1.16 mg/Kg	1.16U mg/Kg
SL-253-SA6-SS-0.0-0.5(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-253-SA6-SS-0.0-0.5(RES)	Zirconium	2.32 mg/Kg	2.32U mg/Kg
SL-254-SA6-SS-0.0-0.5(RES)	BORON	0.856 mg/Kg	0.856U mg/Kg
SL-254-SA6-SS-0.0-0.5(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-254-SA6-SS-0.0-0.5(RES)	Zirconium	2.45 mg/Kg	2.45U mg/Kg
SL-255-SA6-SS-0.0-0.5(RES)	BORON	0.931 mg/Kg	0.931U mg/Kg
SL-255-SA6-SS-0.0-0.5(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg
SL-255-SA6-SS-0.0-0.5(RES)	Zirconium	1.76 mg/Kg	1.76U mg/Kg
SL-256-SA6-SS-0.0-0.5(RES)	BORON	1.87 mg/Kg	1.87U mg/Kg
SL-256-SA6-SS-0.0-0.5(RES)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-256-SA6-SS-0.0-0.5(RES)	Zirconium	2.49 mg/Kg	2.49U mg/Kg
SL-268-SA6-SS-0.0-0.5(RES)	BORON	0.762 mg/Kg	0.762U mg/Kg
SL-268-SA6-SS-0.0-0.5(RES)	TIN	1.13 mg/Kg	1.13U mg/Kg
SL-268-SA6-SS-0.0-0.5(RES)	Zirconium	1.54 mg/Kg	1.54U mg/Kg
SL-289-SA6-SB-3.5-4.5(RES)	BORON	1.45 mg/Kg	1.45U mg/Kg
SL-289-SA6-SB-3.5-4.5(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-289-SA6-SB-3.5-4.5(RES)	Zirconium	2.30 mg/Kg	2.30U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB27B212200A	7/27/2011 10:00:00 PM	ACETONE METHYLENE CHLORIDE TOLUENE	7.5 ug/Kg 1.6 ug/Kg 0.09 ug/Kg	DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA6-QC-072511(RES)	METHYLENE CHLORIDE	2.7 ug/Kg	4.1U ug/Kg
DUP07-SA6-QC-072511(RES)	TOLUENE	0.14 ug/Kg	4.1U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_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-098-SA6-SB-2.0-3.0(RES)	METHYLENE CHLORIDE	3.1 ug/Kg	4.1U ug/Kg
SL-098-SA6-SB-2.0-3.0(RES)	TOLUENE	0.12 ug/Kg	4.1U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_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-098-SA6-SB-2.0-3.0MS **SL-098-SA6-SB-2.0-3.0MSD** (SL-098-SA6-SB-2.0-3.0)	DIETHYLENE GLYCOL	27	26	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-098-SA6-SB-2.0-3.0MSD (SL-098-SA6-SB-2.0-3.0)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	- - - -	134 488 1213 -	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	29 (20.00) 132 (20.00) 176 (20.00) 21 (20.00)	EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) 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-098-SA6-SB-2.0-3.0MS (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	ARSENIC BERYLLIUM CHROMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	147 127 126 136 156 140 129 133 141 192	- - - - - - - - - -	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 CHROMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) Zn, No Qual, >4x
SL-098-SA6-SB-2.0-3.0MS **SL-098-SA6-SB-2.0-3.0MSD** (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	ANTIMONY	39	29	75.00-125.00	-	ANTIMONY	J(all detects) R(all non-detects) post spike = 70%
SL-098-SA6-SB-2.0-3.0MS **SL-098-SA6-SB-2.0-3.0MSD** (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	CADMIUM COBALT	134 -	- -	75.00-125.00 75.00-125.00	22 (20.00) 21 (20.00)	CADMIUM COBALT	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_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-098-SA6-SB-2.0-3.0MS (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 **SL-245-SA6-SS-0.0-0.5** SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	SELENIUM	126	-	75.00-125.00	-	SELENIUM	J(all detects)
SL-098-SA6-SB-2.0-3.0MS (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	MOLYBDENUM	130	-	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-098-SA6-SB-2.0-3.0MS **SL-098-SA6-SB-2.0-3.0MSD** (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	BARIUM	219	58	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_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-098-SA6-SB-2.0-3.0MS **SL-098-SA6-SB-2.0-3.0MSD** (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	ALUMINUM CALCIUM IRON TITANIUM	1108 189 304 394	1247 204 638 333	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM IRON TITANIUM	No Qual, >4x
SL-098-SA6-SB-2.0-3.0MSD (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	MAGNESIUM	-	22	75.00-125.00	-	MAGNESIUM	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-190-SA6-SS-0.0-0.5MS (SL-190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5)	FLUORIDE	60	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-098-SA6-SB-2.0-3.0MSD (SL-098-SA6-SB-2.0-3.0)	ACENAPHTHYLENE BENZO(A)ANTHRACENE	- -	- -	67.00-114.00 59.00-128.00	31 (30.00) 33 (30.00)	ACENAPHTHYLENE BENZO(A)ANTHRACENE	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-098-SA6-SB-2.0-3.0MSD (SL-098-SA6-SB-2.0-3.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-	0	39.00-167.00	200 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
	Butylbenzylphthalate	-	0	57.00-173.00	200 (30.00)	Butylbenzylphthalate	
	Diethylphthalate	-	0	70.00-136.00	200 (30.00)	Diethylphthalate	
	Dimethylphthalate	-	0	74.00-118.00	200 (30.00)	Dimethylphthalate	
	Di-n-butylphthalate	-	0	65.00-148.00	200 (30.00)	Di-n-butylphthalate	
SL-098-SA6-SB-2.0-3.0MSD (SL-098-SA6-SB-2.0-3.0)	1-METHYLNAPHTHALENE	-	68	72.00-123.00	-	1-METHYLNAPHTHALENE	No Qual, Diluted Out
	ANTHRACENE	-	59	73.00-115.00	41 (30.00)	ANTHRACENE	
	BENZO(A)PYRENE	-	39	45.00-138.00	40 (30.00)	BENZO(A)PYRENE	
	BENZO(G,H,I)PERYLENE	-	25	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-	49	57.00-153.00	-	BENZO(K)FLUORANTHENE	
	Di-n-octylphthalate	-	34	40.00-192.00	-	Di-n-octylphthalate	

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-098-SA6-SB-2.0-3.0MSD (SL-098-SA6-SB-2.0-3.0)	4-CHLOROANILINE	-	-	13.00-107.00	50 (30.00)	4-CHLOROANILINE	J(all detects)
SL-098-SA6-SB-2.0-3.0MS **SL-098-SA6-SB-2.0-3.0MSD** (SL-098-SA6-SB-2.0-3.0)	4-CHLOROPHENYL-PHENYLET	79	77	80.00-109.00	-	4-CHLOROPHENYL-PHENYLE	J(all detects) UJ(all non-detects)
	BENZIDINE	26	18	35.00-141.00	36 (30.00)	BENZIDINE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-098-SA6-SB-2.0-3.0DUP (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	Nitrate-NO3	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-098-SA6-SB-2.0-3.0DUP (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	BORON CALCIUM TIN Zirconium	200 21 132 37	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) B, Sn, Zr, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-098-SA6-SB-2.0-3.0DUP (DUP07-SA6-QC-072511 SL-098-SA6-SB-2.0-3.0 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5)	ANTIMONY	41	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-098-SA6-SB-2.0-3.0DUP (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-098-SA6-SB-2.0-3.0DUP (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	MERCURY	47	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-190-SA6-SS-0.0-0.5DUP (SL-190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5)	Nitrate-NO3	73	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 9012B
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-190-SA6-SS-0.0-0.5DUP (SL-190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5)	CYANIDE	200	20.00	No Qual, OK by Difference

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **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
LCS1Y49Y211348A (TB-072511)	2-Chloro-1,1,1-trifluoroethane	-	75	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12084AQ321444A	DIETHYLENE GLYCOL	143	-	75.00-125.00	-	DIETHYLENE GLYCOL	
(DUP07 -SA6-QC-072511	ETHYLENE GLYCOL	139	-	65.00-122.00	-	ETHYLENE GLYCOL	
SL -098-SA6-SB-2.0-3.0	Propylene glycol	130	-	75.00-125.00	-	Propylene glycol	
SL -190-SA6-SS-0.0-0.5							
SL -192-SA6-SS-0.0-0.5							
SL -193-SA6-SS-0.0-0.5							
SL -245-SA6-SS-0.0-0.5							J (all detects)
SL -253-SA6-SS-0.0-0.5							
SL -254-SA6-SS-0.0-0.5							
SL -255-SA6-SS-0.0-0.5							
SL -256-SA6-SS-0.0-0.5							
SL -268-SA6-SS-0.0-0.5							
SL -289-SA6-SB-3.5-4.5)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21008DQ220617	ALUMINUM	140	-	80.00-120.00	-	ALUMINUM	
(DUP07 -SA6-QC-072511	IRON	126	-	80.00-120.00	-	IRON	
SL -098-SA6-SB-2.0-3.0	TITANIUM	185	-	80.00-120.00	-	TITANIUM	
SL -190-SA6-SS-0.0-0.5							
SL -192-SA6-SS-0.0-0.5							
SL -193-SA6-SS-0.0-0.5							
SL -235-SA6-SS-0.0-0.5							
SL -236-SA6-SS-0.0-0.5							No Qual, SRM within QC Limits
SL -245-SA6-SS-0.0-0.5							
SL -253-SA6-SS-0.0-0.5							
SL -254-SA6-SS-0.0-0.5							
SL -255-SA6-SS-0.0-0.5							
SL -256-SA6-SS-0.0-0.5							
SL -268-SA6-SS-0.0-0.5							
SL -289-SA6-SB-3.5-4.5)							

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LDLCSQ260018 (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	ACENAPHTHENE	132	-	63.00-120.00	-	ACENAPHTHENE	J(all detects)
	BENZO(A)PYRENE	261	-	58.00-129.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	1881	-	63.00-143.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	356	-	66.00-150.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	917	-	54.00-142.00	-	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	195	-	67.00-143.00	-	BIS(2-ETHYLHEXYL)PHTHALA	
	CHRYSENE	207	-	73.00-114.00	-	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	635	-	53.00-138.00	-	DIBENZO(A,H)ANTHRACENE	
	Di-n-octylphthalate	1884	-	68.00-162.00	-	Di-n-octylphthalate	
	FLUORENE	221	-	71.00-120.00	-	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	258	-	56.00-134.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	139	-	75.00-120.00	-	PHENANTHRENE	
P5LDLCSQ260018 (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	Butylbenzylphthalate	0	-	65.00-131.00	-	Butylbenzylphthalate	J(all detects) R(all non-detects)
P5LDLCSQ260018 (DUP07 -SA6-QC-072511 SL -098-SA6-SB-2.0-3.0 SL -190-SA6-SS-0.0-0.5 SL -192-SA6-SS-0.0-0.5 SL -193-SA6-SS-0.0-0.5 SL -235-SA6-SS-0.0-0.5 SL -236-SA6-SS-0.0-0.5 SL -245-SA6-SS-0.0-0.5 SL -253-SA6-SS-0.0-0.5 SL -254-SA6-SS-0.0-0.5 SL -255-SA6-SS-0.0-0.5 SL -256-SA6-SS-0.0-0.5 SL -268-SA6-SS-0.0-0.5 SL -289-SA6-SB-3.5-4.5)	ANTHRACENE	43	-	73.00-113.00	-	ANTHRACENE	J(all detects) UJ(all non-detects)
	Di-n-butylphthalate	44	-	75.00-113.00	-	Di-n-butylphthalate	
	FLUORANTHENE	53	-	64.00-120.00	-	FLUORANTHENE	

Surrogate Outlier Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-268-SA6-SS-0.0 -0.5	n-Triacontane-d62	6	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-268-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	173	20.00-120.00	All Target Analytes	J(all detects)
SL-268-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	43	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-192-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	44	45.00-120.00	All Target Analytes	J (all detects) UJ (all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
MOISTURE	5.4	6.1	12		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
FLUORIDE	3.1	4.0	25	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
ALUMINUM	12600	12400	2	50.00	
CALCIUM	7920	5040	44	50.00	
IRON	19800	24000	19	50.00	
LITHIUM	25.0	28.6	13	50.00	
MAGNESIUM	5690	6090	7	50.00	
MANGANESE	272	280	3	50.00	
PHOSPHORUS	401	408	2	50.00	No Qualifiers Applied
POTASSIUM	2810	2840	1	50.00	
SODIUM	238	148	47	50.00	
STRONTIUM	24.6	14.9	49	50.00	
TITANIUM	991	1210	20	50.00	
Zirconium	2.16	2.01	7	50.00	
TIN	0.489	2.35	131	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
ANTIMONY	0.170	0.174	2	50.00	
ARSENIC	5.12	6.88	29	50.00	
BARIUM	93.4	123	27	50.00	
BERYLLIUM	0.533	0.784	38	50.00	
CADMIUM	0.196	0.141	33	50.00	
CHROMIUM	20.4	29.8	37	50.00	
COBALT	6.76	9.68	36	50.00	
COPPER	11.1	12.7	13	50.00	No Qualifiers Applied
LEAD	6.83	6.36	7	50.00	
NICKEL	14.0	19.1	31	50.00	
SELENIUM	0.158	0.107	38	50.00	
SILVER	0.0373	0.0319	16	50.00	
THALLIUM	0.295	0.388	27	50.00	
VANADIUM	37.9	52.3	32	50.00	
ZINC	74.3	89.7	19	50.00	
MOLYBDENUM	0.684	1.35	65	50.00	J(all detects)

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-098-SA6-SB-2.0-3.0	Concentration (mg/Kg) DUP07-SA6-QC-072511	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.97	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-098-SA6-SB-2.0-3.0	Concentration (mg/Kg) DUP07-SA6-QC-072511	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0257	0.106 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg) SL-098-SA6-SB-2.0-3.0	Concentration (mg/Kg) DUP07-SA6-QC-072511	Sample RPD	eQAPP RPD	Flag
EFH (C21-C30)	1.3 U	1.5	200	50.00	J(all detects)
EFH (C30-C40)	0.65	3.1	131	50.00	UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-098-SA6-SB-2.0-3.0	Concentration (ug/Kg) DUP07-SA6-QC-072511	Sample RPD	eQAPP RPD	Flag
AROCLOR 1254	1.7	1.8 U	200	50.00	J(all detects)
Aroclor 5460	3.4	3.5 U	200	50.00	UJ(all non-detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg) SL-098-SA6-SB-2.0-3.0	Concentration (ug/Kg) DUP07-SA6-QC-072511	Sample RPD	eQAPP RPD	Flag
METHYLENE CHLORIDE	3.1	2.7	14	50.00	No Qualifiers Applied
TOLUENE	0.12	0.14	15	50.00	

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg) SL-098-SA6-SB-2.0-3.0	Concentration (ug/Kg) DUP07-SA6-QC-072511	Sample RPD	eQAPP RPD	Flag
BENZO(A)PYRENE	5.4	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	6.7	1.8 U	200	50.00	
BENZO(G,H,I)PERYLENE	4.9	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	5.6	1.8 U	200	50.00	J(all detects)
CHRYSENE	5.7	1.8 U	200	50.00	UJ(all non-detects)
Di-n-octylphthalate	60	19 U	200	50.00	
FLUORANTHENE	4.1	1.8 U	200	50.00	
PYRENE	4.4	1.8 U	200	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
PH	8.06	8.23	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA6-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	17.0	33.3	PQL	ng/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	17.2	33.4	PQL	ng/Kg	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.4	1.5	PQL	mg/Kg	J (all detects)
SL-192-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.2	1.5	PQL	mg/Kg	J (all detects)
SL-193-SA6-SS-0.0-0.5	Nitrate-NO3	J	0.88	1.5	PQL	mg/Kg	J (all detects)
SL-245-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.2	1.5	PQL	mg/Kg	J (all detects)
SL-254-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA6-QC-072511	TIN	J	2.35	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.01	5.17	PQL	mg/Kg	
SL-098-SA6-SB-2.0-3.0	TIN	J	0.489	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.16	5.23	PQL	mg/Kg	
SL-190-SA6-SS-0.0-0.5	BORON	J	2.85	4.97	PQL	mg/Kg	J (all detects)
	SODIUM	J	67.9	99.4	PQL	mg/Kg	
	TIN	J	2.57	9.94	PQL	mg/Kg	
	Zirconium	J	1.83	4.97	PQL	mg/Kg	
SL-192-SA6-SS-0.0-0.5	BORON	J	1.81	4.91	PQL	mg/Kg	J (all detects)
	SODIUM	J	61.8	98.2	PQL	mg/Kg	
	TIN	J	2.24	9.82	PQL	mg/Kg	
	Zirconium	J	1.54	4.91	PQL	mg/Kg	
SL-193-SA6-SS-0.0-0.5	BORON	J	1.32	5.07	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.7	101	PQL	mg/Kg	
	TIN	J	2.24	10.1	PQL	mg/Kg	
	Zirconium	J	2.39	5.07	PQL	mg/Kg	
SL-235-SA6-SS-0.0-0.5	BORON	J	1.20	4.88	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.1	97.5	PQL	mg/Kg	
	TIN	J	2.22	9.75	PQL	mg/Kg	
	Zirconium	J	2.03	4.88	PQL	mg/Kg	
SL-236-SA6-SS-0.0-0.5	BORON	J	0.974	4.90	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.7	98.1	PQL	mg/Kg	
	TIN	J	2.36	9.81	PQL	mg/Kg	
	Zirconium	J	2.59	4.90	PQL	mg/Kg	
SL-245-SA6-SS-0.0-0.5	BORON	J	0.981	4.86	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.5	97.1	PQL	mg/Kg	
	TIN	J	2.21	9.71	PQL	mg/Kg	
	Zirconium	J	2.51	4.86	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-253-SA6-SS-0.0-0.5	BORON	J	1.16	4.85	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.7	96.9	PQL	mg/Kg	
	TIN	J	2.47	9.69	PQL	mg/Kg	
	Zirconium	J	2.32	4.85	PQL	mg/Kg	
SL-254-SA6-SS-0.0-0.5	BORON	J	0.856	4.94	PQL	mg/Kg	J (all detects)
	SODIUM	J	69.5	98.8	PQL	mg/Kg	
	TIN	J	3.31	9.88	PQL	mg/Kg	
	Zirconium	J	2.45	4.94	PQL	mg/Kg	
SL-255-SA6-SS-0.0-0.5	BORON	J	0.931	4.86	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	9.72	PQL	mg/Kg	
	Zirconium	J	1.76	4.86	PQL	mg/Kg	
SL-256-SA6-SS-0.0-0.5	BORON	J	1.87	5.01	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.0	100	PQL	mg/Kg	
	TIN	J	2.40	10.0	PQL	mg/Kg	
	Zirconium	J	2.49	5.01	PQL	mg/Kg	
SL-268-SA6-SS-0.0-0.5	BORON	J	0.762	4.85	PQL	mg/Kg	J (all detects)
	SODIUM	J	61.1	97.0	PQL	mg/Kg	
	TIN	J	1.13	9.70	PQL	mg/Kg	
	Zirconium	J	1.54	4.85	PQL	mg/Kg	
SL-289-SA6-SB-3.5-4.5	BORON	J	1.45	5.27	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.5	PQL	mg/Kg	
	Zirconium	J	2.30	5.27	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA6-QC-072511	ANTIMONY	J	0.174	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.107	0.414	PQL	mg/Kg	
	SILVER	J	0.0319	0.103	PQL	mg/Kg	
SL-098-SA6-SB-2.0-3.0	ANTIMONY	J	0.170	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.158	0.407	PQL	mg/Kg	
	SILVER	J	0.0373	0.102	PQL	mg/Kg	
SL-190-SA6-SS-0.0-0.5	SELENIUM	J	0.246	0.406	PQL	mg/Kg	J (all detects)
SL-192-SA6-SS-0.0-0.5	ANTIMONY	J	0.130	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.256	0.397	PQL	mg/Kg	
	SILVER	J	0.0478	0.0991	PQL	mg/Kg	
SL-193-SA6-SS-0.0-0.5	ANTIMONY	J	0.193	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.221	0.397	PQL	mg/Kg	
	SILVER	J	0.0605	0.0993	PQL	mg/Kg	
SL-235-SA6-SS-0.0-0.5	ANTIMONY	J	0.0993	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.406	PQL	mg/Kg	
	SILVER	J	0.0905	0.101	PQL	mg/Kg	
SL-236-SA6-SS-0.0-0.5	ANTIMONY	J	0.160	0.196	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.155	0.392	PQL	mg/Kg	
	SILVER	J	0.0925	0.0981	PQL	mg/Kg	
SL-245-SA6-SS-0.0-0.5	ANTIMONY	J	0.137	0.194	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0697	0.0971	PQL	mg/Kg	
SL-253-SA6-SS-0.0-0.5	ANTIMONY	J	0.125	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.159	0.395	PQL	mg/Kg	
	SILVER	J	0.0559	0.0988	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-254-SA6-SS-0.0-0.5	ANTIMONY	J	0.130	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.203	0.403	PQL	mg/Kg	
	SILVER	J	0.0607	0.101	PQL	mg/Kg	
SL-255-SA6-SS-0.0-0.5	ANTIMONY	J	0.0753	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.207	0.389	PQL	mg/Kg	
	SILVER	J	0.0441	0.0972	PQL	mg/Kg	
SL-256-SA6-SS-0.0-0.5	ANTIMONY	J	0.107	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.218	0.400	PQL	mg/Kg	
	SILVER	J	0.0441	0.100	PQL	mg/Kg	
SL-289-SA6-SB-3.5-4.5	ANTIMONY	J	0.131	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.405	PQL	mg/Kg	
	SILVER	J	0.0402	0.101	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.97	1.1	PQL	mg/Kg	J (all detects)
SL-193-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.0	PQL	mg/Kg	J (all detects)
SL-235-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.50	1.0	PQL	mg/Kg	J (all detects)
SL-236-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-245-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.42	1.0	PQL	mg/Kg	J (all detects)
SL-254-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.56	1.0	PQL	mg/Kg	J (all detects)
SL-256-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.40	1.0	PQL	mg/Kg	J (all detects)
SL-268-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.54	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SB-2.0-3.0	MERCURY	J	0.0257	0.0990	PQL	mg/Kg	J (all detects)
SL-190-SA6-SS-0.0-0.5	MERCURY	J	0.0582	0.0970	PQL	mg/Kg	J (all detects)
SL-192-SA6-SS-0.0-0.5	MERCURY	J	0.0193	0.0990	PQL	mg/Kg	J (all detects)
SL-193-SA6-SS-0.0-0.5	MERCURY	J	0.0131	0.0955	PQL	mg/Kg	J (all detects)
SL-235-SA6-SS-0.0-0.5	MERCURY	J	0.0085	0.0950	PQL	mg/Kg	J (all detects)
SL-245-SA6-SS-0.0-0.5	MERCURY	J	0.0202	0.0988	PQL	mg/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	MERCURY	J	0.0182	0.0967	PQL	mg/Kg	J (all detects)
SL-254-SA6-SS-0.0-0.5	MERCURY	J	0.0115	0.0982	PQL	mg/Kg	J (all detects)
SL-256-SA6-SS-0.0-0.5	MERCURY	J	0.0071	0.0993	PQL	mg/Kg	J (all detects)
SL-289-SA6-SB-3.5-4.5	MERCURY	J	0.0242	0.104	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA6-SS-0.0-0.5	METHANOL	J	210	510	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SB-2.0-3.0	EFH (C30-C40)	J	0.65	1.3	PQL	mg/Kg	J (all detects)
SL-190-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.59	1.2	PQL	mg/Kg	J (all detects)
SL-193-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.85	1.2	PQL	mg/Kg	J (all detects)
SL-245-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.65	1.2	PQL	mg/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	EFH (C8-C11)	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-255-SA6-SS-0.0-0.5	EFH (C15-C20) EFH (C8-C11)	J J	0.67 0.43	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-256-SA6-SS-0.0-0.5	EFH (C15-C20) EFH (C8-C11)	J J	0.99 0.44	1.2 1.2	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-268-SA6-SS-0.0-0.5	EFH (C15-C20)	J	10	12	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.11	0.17	PQL	ug/Kg	J (all detects)
SL-193-SA6-SS-0.0-0.5	4,4'-DDT	J	0.30	0.34	PQL	ug/Kg	J (all detects)
SL-235-SA6-SS-0.0-0.5	4,4'-DDE 4,4'-DDT	J J	0.13 0.21	0.34 0.34	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-236-SA6-SS-0.0-0.5	4,4'-DDE 4,4'-DDT	J J	0.14 0.22	0.34 0.34	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-245-SA6-SS-0.0-0.5	4,4'-DDE	J	0.13	0.34	PQL	ug/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	4,4'-DDE	J	0.23	0.34	PQL	ug/Kg	J (all detects)
SL-254-SA6-SS-0.0-0.5	ALPHA-BHC	J	0.14	0.17	PQL	ug/Kg	J (all detects)
SL-255-SA6-SS-0.0-0.5	4,4'-DDT	J	0.20	0.34	PQL	ug/Kg	J (all detects)
SL-268-SA6-SS-0.0-0.5	gamma-BHC (Lindane)	J	0.080	0.17	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SB-2.0-3.0	AROCLOR 1254 Aroclor 5460	J J	1.7 3.4	1.8 3.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-192-SA6-SS-0.0-0.5	Aroclor 5460	J	3.0	3.3	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-235-SA6-SS-0.0-0.5	AROCLOR 1260	J	0.82	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.3	3.3	PQL	ug/Kg	
SL-236-SA6-SS-0.0-0.5	AROCLOR 1260	J	0.83	1.7	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	3.3	PQL	ug/Kg	

Method: 8151A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SS-0.0-0.5	DICHLOROPROP	J	0.85	1.7	PQL	ug/Kg	J (all detects)
SL-193-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.11	0.17	PQL	ug/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	2,4-DB	J	1.1	1.7	PQL	ug/Kg	J (all detects)

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA6-QC-072511	METHYLENE CHLORIDE	J	2.7	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.14	4.1	PQL	ug/Kg	
SL-098-SA6-SB-2.0-3.0	METHYLENE CHLORIDE	J	3.1	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.1	PQL	ug/Kg	

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-235-SA6-SS-0.0-0.5	Di-n-octylphthalate	J	22	170	PQL	ug/Kg	J (all detects)
SL-255-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	340	PQL	ug/Kg	J (all detects)
SL-268-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	190	1700	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	350	1700	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SB-2.0-3.0	BENZO(A)PYRENE	J	5.4	8.8	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	6.7	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.9	8.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.6	8.8	PQL	ug/Kg	
	CHRYSENE	J	5.7	8.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	60	95	PQL	ug/Kg	
	FLUORANTHENE	J	4.1	8.8	PQL	ug/Kg	
	PYRENE	J	4.4	8.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.6	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.70	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.3	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	13	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.91	1.7	PQL	ug/Kg	
SL-192-SA6-SS-0.0-0.5	CHRYSENE	J	0.38	1.7	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
SL-193-SA6-SS-0.0-0.5	CHRYSENE	J	3.8	8.4	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	79	91	PQL	ug/Kg	
SL-235-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.85	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.92	1.7	PQL	ug/Kg	
	PYRENE	J	0.87	1.7	PQL	ug/Kg	
SL-236-SA6-SS-0.0-0.5	ANTHRACENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
	PHENANTHRENE	J	1.2	1.7	PQL	ug/Kg	
SL-245-SA6-SS-0.0-0.5	CHRYSENE	J	2.3	8.4	PQL	ug/Kg	J (all detects)
SL-253-SA6-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.84	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	1.1	1.7	PQL	ug/Kg	
	ACENAPHTHYLENE	J	1.2	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	6.8	18	PQL	ug/Kg	
SL-254-SA6-SS-0.0-0.5	CHRYSENE	J	3.6	8.4	PQL	ug/Kg	J (all detects)
	Diethylphthalate	J	46	91	PQL	ug/Kg	
SL-255-SA6-SS-0.0-0.5	2-METHYLNAPHTHALENE	J	0.91	1.7	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.88	1.7	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-256-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	0.99	1.7	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.92	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.0	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.68	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.4	1.7	PQL	ug/Kg	
	PYRENE	J	1.6	1.7	PQL	ug/Kg	
SL-289-SA6-SB-3.5-4.5	BENZO(A)ANTHRACENE	J	3.9	8.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.2	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.6	8.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	4.6	8.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	64	95	PQL	ug/Kg	
	PYRENE	J	4.4	8.8	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE208 **Laboratory: LL**

EDD Filename: DE208_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **8315A**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-253-SA6-SS-0.0-0.5	FORMALDEHYDE	J	680	1500	PQL	ug/Kg	J (all detects)

Enclosure II

Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 25, 2011

LDC Report Date: November 14, 2011

Matrix: Soil/Water

Parameters: Volatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-098-SA6-SB-2.0-3.0
DUP07-SA6-QC-072511
TB-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 4 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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
7/27/11	Freon 113	26	All soil samples in SDG DE208	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.

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
VBLKB27	7/27/11	Acetone Methylene chloride Toluene	7.5 ug/Kg 1.6 ug/Kg 0.09 ug/Kg	All soil samples in SDG DE208

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-098-SA6-SB-2.0-3.0	Methylene chloride Toluene	3.1 ug/Kg 0.12 ug/Kg	4.1U ug/Kg 4.1U ug/Kg
DUP07-SA6-QC-072511	Methylene chloride Toluene	2.7 ug/Kg 0.14 ug/Kg	4.1U ug/Kg 4.1U ug/Kg

Sample TB-072511 was identified as a trip blank. No volatile contaminants were found.

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 with the following exceptions:

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
LCS/D1Y49 (All water samples in SDG DE208)	Freon 133a	-	75 (77-120)	-	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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 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
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Methylene chloride	3.1	2.7	14 (≤50)	-	-
Toluene	0.12	0.14	15 (≤50)	-	-

Santa Susana Field Laboratory
Volatiles - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Freon 113	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE208	TB-072511	Freon 113a	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511 TB-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Volatiles - Laboratory Blank Data Qualification Summary - SDG DE208

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE208	SL-098-SA6-SB-2.0-3.0	Methylene chloride Toluene	4.1U ug/Kg 4.1U ug/Kg	A	B
DE208	DUP07-SA6-QC-072511	Methylene chloride Toluene	4.1U ug/Kg 4.1U ug/Kg	A	B

Santa Susana Field Laboratory
Volatiles - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A1a **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer:
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: 7/25/11
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	A	
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/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = 1,2
XVII.	Field blanks	ND	TB = 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 1	SL-098-SA6-SB-2.0-3.0 S	11 1	VBLKB27	21		31	
2 1	DUP07-SA6-QC-072511 ↓	12 2	VBLKY49	22		32	
3 2	TB-072511 W	13		23		33	
4 1	SL-098-SA6-SB-2.0-3.0MS	14		24		34	
5 1	SL-098-SA6-SB-2.0-3.0MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

DC #: 26533 A/a

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: C

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 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?	✓			

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/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 of data				
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 #: 26533A/c

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: FT
2nd Reviewer: C

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
	7/27/11 19:45	CCV	Freon 113	FB 26		All soils	J/UJ/A (c)

CONCAL_8260B.1S

LDC #: 26533A1e

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: EF
2nd Reviewer: C

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 all samples associated with a given method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction procedure was performed?
Y N N/A Was a method blank performed with each extraction batch?
Y N N/A Were any contaminants found in the method blanks? If yes, please see findings below.

(B)

Level IV/D Only

Y N N/A (Gasoline and aromatics only)Was a method blank analyzed with each 24 hour batch?
Y N N/A Was a method blank analyzed for each analytical / extraction batch of ≤20 samples?

Blank extraction date:_____ **Blank analysis date:** 7/27/11 **Associated samples:** ALL SOILS
Conc. units: ug/kg

Compound	Blank ID	Sample Identification						
	VBLKB27	1	2					
F	7.5	-	-					
E	1.6	3.1 / 4.14	2.7 / 4.14					
CC	0.09	0.12 / 4.14	0.14 / 4.14					

Blank extraction date:_____ **Blank analysis date:**_____ **Associated samples:**_____
Conc. units:_____

Compound	Blank ID	Sample Identification						

ALL 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 #: 26533A/K

VALIDATION FINDINGS WORKSHEET
Laboratory Control Samples (LCS)

Page: 1 of 1
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".

N N/A Was a LCS required?
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/D1Y49	Freon 133a	( )	75 (77-120)	( )	All waters	J/UJ/P (L)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
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				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 26533A1/2

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: EJ
2nd reviewer: [illegible]

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?

Compound	Concentration (ug/kg) 1	2	≤ 50 RPD
E	3.1	2.7	14
CC	0.12	0.14	15

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 26533A/a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: A

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 (SV std)	Recalculated RRF (SV std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/21/11	C (1st internal standard)	0.3422	0.3422	0.3505	0.3505	9	9
			EE (2nd internal standard)	1.8304	1.8304	1.7156	1.7156	7	7
			JJJ (3rd internal standard)	1.5137	1.5137	1.4916	1.4916	6	6
			(4th internal standard)						
2	ICAL	7/26/11	C (1st internal standard)	0.3634	0.3634	0.3670	0.3670	8	8
			EE (2nd internal standard)	1.9823	1.9823	1.8280	1.8280	6	6
			JJJ (3rd internal standard)	1.7721	1.7721	1.6684	1.6684	5	5
			(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 #: 26533A/R

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
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	7/27/11	C (1st internal standard)	0.3505	0.3321	0.3321	5	5
	19:45		EE (2nd internal standard)	1.7156	1.8228	1.8228	6	6
			JJJ (3rd internal standard)	1.4916	1.5457	1.5457	4	4
			(4th internal standard)					
2	CCV	7/29/11	C (1st internal standard)					
	11:21		EE (2nd internal standard)	0.3670	0.3749	0.3749	2	2
			JJJ (3rd internal standard)					
			(4th internal standard)					
3	CCV	7/29/11	C (1st internal standard)	0.3670	0.3749	0.3749	2	2
	11:21		EE (2nd internal standard)	1.8280	1.9428	1.9428	6	6
			JJJ (3rd internal standard)	1.6684	1.7456	1.7456	5	5
			(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 #: 26533A1a

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer:

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	51.983	104	104	0
1,2-Dichloroethane-d4	↓	51.283	103	103	↓
Toluene-d8		49.174	98	98	
Bromofluorobenzene		46.186	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 #: 26533A1R

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: 4+5

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	19.16	19.16	ND	21.69	19.79	113	113	109	109	9	9
Trichloroethene	19.16	19.16	ND	18.65	16.81	97	97	93	93	10	10
Benzene	19.16	19.16	ND	18.95	17.07	99	99	94	94	10	10
Toluene	19.16	19.16	0.12	18.64	16.79	97	97	92	92	10	10
Chlorobenzene	19.16	19.16	ND	18.14	16.34	95	95	90	90	10	10

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.

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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 = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS1B27

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	NA	20.27	NA	101	101				
Trichloroethene			18.35		92	92				
Benzene			18.99		95	95				
Toluene			18.69		93	93				
Chlorobenzene			18.90		94	94	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 #: 26533A1/2

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: [illegible]

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. = (1759)(50)( ) / (801415)(0.9307)(5.13)(0.95)

=

0.121 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:	July 25, 2011
LDC Report Date:	November 9, 2011
Matrix:	Soil/Water
Parameters:	1,4-Dioxane
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE208

Sample Identification

SL-098-SA6-SB-2.0-3.0
DUP07-SA6-QC-072511
TB-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 4 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 1,4-Dioxane.

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% for 1,4-Dioxane.

The percent differences (%D) of the second source calibration standard were less than or equal to 25.0% for 1,4-Dioxane.

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-072511 was identified as a trip blank. No 1,4-dioxane was found.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No volatiles were detected in any of the samples.

Santa Susana Field Laboratory
1,4-Dioxane - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511 TB-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
1,4-Dioxane - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
1,4-Dioxane - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A1b **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EZ
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: 7/25/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%D ≤ 30
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ ~~20~~ 25
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	D = 1,2
XVII.	Field blanks	ND	TB = 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 1	SL-098-SA6-SB-2.0-3.0	11 1	VBLKE30	21		31	
2 1	DUP07-SA6-QC-072511	12 2	VBLKE32	22		32	
3 3	TB-072511 W	13 3	VBLKE29	23		33	
4 1	SL-098-SA6-SB-2.0-3.0MS	14		24		34	
5 3	SL-098-SA6-SB-2.0-3.0MSD	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

DC #: 26533A1b

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 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?	✓			

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/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 of data				
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 #: 26533A1b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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	6/17/11	1,4-Dioxane (1st internal standard)	1.4025	1.4025	1.4910	1.4910	6	6
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)	(10)	(10)				
2	ICAL	6/16/11	1,4-Dioxane (1st internal standard)	1.3847	1.3847	1.3554	1.3554	4	4
			(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 #: 26533A/b

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 12:59	7/27/11	1,4-Dioxane (1st internal standard)	1.4910	1.3647	1.3647	8	8
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
2	CCV 12:04	7/29/11	↓ (1st internal standard)	1.4910	1.4962	1.4962	0	0
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3	CCV 9:55	7/27/11	↓ (1st internal standard)	1.3554	1.4613	1.4613	8	8
			(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 #: 26533A1D

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: C

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	9.756	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 #: 26533A1b

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: 4

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~~ 1,4-Dioxane	120.89	120.89	ND	104.68	100	87	87	83	83	4.5	4.5
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.

Reviewer: FT

2nd Reviewer: A

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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 = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: LCS ID # 30

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	125	117.67	124.85	94	94	100	100	6	6
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 #: 26533A1b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: C

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. = ( ) ( ) ( ) / ( ) ( ) ( ) ( )

= NP

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 25, 2011

LDC Report Date: November 10, 2011

Matrix: Soil

Parameters: Semivolatiles

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 16 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 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
SL-098-SA6-SB-2.0-3.0MS/MSD (SL-098-SA6-SB-2.0-3.0)	4-Chloroaniline	-	-	50 (≤30)	J (all detects)	A
SL-098-SA6-SB-2.0-3.0MS/MSD (SL-098-SA6-SB-2.0-3.0)	4-Chlorophenyl-phenyl ether Benzidine	79 (80-109) 26 (35-141)	77 (80-109) 18 (35-141)	43 (≤30) - 36 (≤30)	J (all detects) UJ (all non-detects) 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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No semivolatiles were detected in any of the samples.

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-098-SA6-SB-2.0-3.0	4-Chloroaniline	J (all detects)	A	Matrix spike/Matrix spike duplicate (%R) (RPD) (Q)
DE208	SL-098-SA6-SB-2.0-3.0	4-Chlorophenyl-phenyl ether	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE208	SL-098-SA6-SB-2.0-3.0	Benzidine	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Semivolatiles - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A2a **VALIDATION COMPLETENESS WORKSHEET** Date: 11/9/11
SDG #: DE208 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: 7/25/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	%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/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	NP	D = 12, 14
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-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21	SBLK LC2/6	31	
2	SL-192-SA6-SS-0.0-0.5	12	SL-098-SA6-SB-2.0-3.0	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-289-SA6-SB-3.5-4.5	23		33	
4	SL-235-SA6-SS-0.0-0.5	14	DUP07-SA6-QC-072511	24		34	
5	SL-236-SA6-SS-0.0-0.5	15	SL-098-SA6-SB-2.0-3.0MS	25		35	
6	SL-245-SA6-SS-0.0-0.5	16	SL-098-SA6-SB-2.0-3.0MSD	26		36	
7	SL-253-SA6-SS-0.0-0.5	17		27		37	
8	SL-254-SA6-SS-0.0-0.5	18		28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

LDC #: 26533A2a

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
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 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?	✓			
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 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 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?	✓			

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?	✓			
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 from 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/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 of data				
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.			✓	

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 #: 26533A2c

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: C

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
		15 + 16	~~Tetralin~~	~~55 (70-130)~~	( )	~~43 (30)~~	~~12~~ 12	~~J/UJ/A~~ (Q)
			T	( )	( )	50 (↓)	↓	J/A det
			MM	79 (80-109)	77 (80-109)	( )		J/UJ/A
			SSS	26 (35-141)	18 (35-141)	36 (↓)	↓	↓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )	

LDC #: 26535T07

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	ICAL	8/8/11	Phenol (1st internal standard)	2.451	2.451	2.317	2.317	5	5
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.476	0.476	0.485	0.485	3	3
			~~Fluorene~~ 2-Nitroaniline (3rd internal standard)	0.379	0.379	0.373	0.373	9	9
			Pentachlorophenol (4th internal standard)	0.131	0.131	0.125	0.125	8	8
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.658	0.658	0.649	0.649	3	3
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.541	1.541	1.478	1.478	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 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 #: 26533A29

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 16:23	8/15/11	Phenol (1st internal standard)	2.317	2.235	2.235	4	4
			~~Naphthalene~~ Nitrobenzene (2nd internal standard)	0.485	0.503	0.503	4	4
			~~Fluorene~~ 2-Nitroaniline (3rd internal standard)	0.373	0.390	0.390	5	5
			Pentachlorophenol (4th internal standard)	0.125	0.105	0.105	16	16
			Bis(2-ethylhexyl)phthalate (5th internal standard)	0.649	0.716	0.716	10	10
			~~Benzo(a)pyrene~~ Di-n-octylphthalate (6th internal standard)	1.478	1.548	1.548	5	5
2	CCV 0325	8/16/11	~~Phenol~~ (1st internal standard)		2.223	2.223	4	4
			Naphthalene (2nd internal standard)		0.515	0.515	6	6
			Fluorene (3rd internal standard)		0.385	0.385	3	3
			Pentachlorophenol (4th internal standard)		0.101	0.101	20	20
			Bis(2-ethylhexyl)phthalate (5th internal standard)		0.735	0.735	13	13
			~~Benzo(a)pyrene~~ (6th internal standard)		1.628	1.628	10	10
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 #: 26533A09

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	~~74~~ 73.712	74	74	0
2-Fluorobiphenyl	↓	75.081	75	75	
Terphenyl-d14	↓	66.309	66	66	
Phenol-d5	200	155.039	78	78	
2-Fluorophenol	↓	152.188	76	76	
2,4,6-Tribromophenol	↓	128.494	64	64	↓
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 #: 26533A2q

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
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 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: 15 & 16

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	1219.07	1235.19	73	73	74	74	1	1
N-Nitroso-di-n-propylamine			ND	1248.79	1251.42	75	75	75	75	0	0
4-Chloro-3-methylphenol				1276.37	1283.93	77	77	77	77	1	1
Acenaphthene				1326.12	1328	80	80	80	80	0	0
Pentachlorophenol				1067.1	1032.11	64	64	62	62	3	3
Pyrene				1389.02	1358.13	83	83	81	81	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 #: 26353T-4

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: 216LCLCS

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	1541.84	NA	93	93				
N-Nitroso-di-n-propylamine			1587.77		95	95				
4-Chloro-3-methylphenol			1613.33		97	97				
Acenaphthene			1677.44		101	101				
Pentachlorophenol			1172.98		70	70				
Pyrene			1726.39		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 #: 26533A2S

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT
2nd reviewer: C

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, Di-n-octylphthalate

Conc. = $\frac{(1536)(20)(1)(1000)(\ )}{(324584)(1.478)(30)(0.99)(\ )}$

= 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:	July 25, 2011
LDC Report Date:	November 21, 2011
Matrix:	Soil
Parameters:	Semivolatiles
Validation Level:	Level IV
Laboratory:	Lancaster laboratories
Sample Delivery Group (SDG):	DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 16 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 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 not within the QC limits. Since the samples were diluted out, no data were qualified.

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
215LDLCS (All samples in SDG DE208)	Acenaphthene Fluorene Phenanthrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	132 (63-120) 221 (71-120) 139 (75-120) 1881 (63-143) 917 (54-142) 261 (58-128) 258 (56-134) 635(53-138)	- - - - - - - -	- - - - - - - -	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	P
215LDLCS (All samples in SDG DE208)	Anthracene Fluoranthene	43 (73-113) 53 (64-120)	- -	- -	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P
215LDLCS (SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511 SBLKLD215)	Chrysene Benzo(g,h,i)perylene	207 (73-114) 356 (66-150)	- -	- -	J (all detects) J (all detects)	P

LCS ID (Associated Samples)	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Flag	A or P
215LDLCS (SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 DUP07-SA6-QC-072511 SBLKLD215)	Di-n-butylphthalate	44 (75-137)	-	-	J (all detects) UJ (all non-detects)	P
215LDLCS (SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 DUP07-SA6-QC-072511 SBLKLD215)	Butylbenzylphthalate	0 (65-131)	-	-	J (all detects) R (all non detects)	P
215LDLCS (SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 DUP07-SA6-QC-072511 SBLKLD215)	Bis(2-ethylhexyl)phthalate	195 (67-143)	-	-	J (all detects)	P
215LDLCS (SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511 SBLKLD215)	Di-n-octylphthalate	1884 (68-162)	-	-	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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	All compounds reported below the RL.	J (all detects)	A

XIII. Tentatively Identified Compounds (TICs)

All tentatively identified compounds were within validation criteria.

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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 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
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Benzo(a)pyrene	5.4	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(b)fluoranthene	6.7	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(g,h,i)perylene	4.9	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Benzo(k)fluoranthene	5.6	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Compound	Concentration (ug/Kg)		RPD (Limits)	Flags	A or P
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Chrysene	5.7	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Fluoranthene	4.1	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Di-n-octylphthalate	6.0	1.9U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Pyrene	4.4	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Semivolatiles - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Acenaphthene Fluorene Phenanthrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenzo(a,h)anthracene	J (all detects) 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)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Anthracene Fluoranthene	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Chrysene Benzo(g,h,i)perylene	J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 DUP07-SA6-QC-072511	Di-n-butylphthalate	J (all detects) UJ (all non-detects)	P	Laboratory control samples (%R) (L)

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 DUP07-SA6-QC-072511	Butylbenzylphthalate	J (all detects) R (all non detects)	P	Laboratory control samples (%R) (L)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 DUP07-SA6-QC-072511	Bis(2-ethylhexyl)phthalate	J (all detects)	P	Laboratory control samples (%R) (L)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Di-n-octylphthalate	J (all detects)	P	Laboratory control samples (%R) (L)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Fluoranthene 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 DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Semivolatiles - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A2b **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: EJ
SVOA 2nd Reviewer:

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: 7/25/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	~~3~~ A	% 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	SW	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/RL/LOQ/LODs	A	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	SW	D = ~~12~~ 13, 14
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-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21	SB1K LP015	31	
2	SL-192-SA6-SS-0.0-0.5	12	SL-098-SA6-SB-2.0-3.0	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-289-SA6-SB-3.5-4.5	23		33	
4	SL-235-SA6-SS-0.0-0.5	14	DUP07-SA6-QC-072511	24		34	
5	SL-236-SA6-SS-0.0-0.5	15	SL-098-SA6-SB-2.0-3.0MS	25		35	
6	SL-245-SA6-SS-0.0-0.5	16	SL-098-SA6-SB-2.0-3.0MSD	26		36	
7	SL-253-SA6-SS-0.0-0.5	17		27		37	
8	SL-254-SA6-SS-0.0-0.5	18		28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

LDC #: 26533A2b

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 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?	✓			
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 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 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 #: 26533A26

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?		✓		
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 from 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/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 of data				
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.			✓	

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 #: 26533A2b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer: C

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
		15+16	several %R	+ %R RPD	were		12	no qual
			outside limit	( )	( )			5x PQL
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )	

LDC #: 26533A2b

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?

(L)

#	Date	LCS/LCSD ID	Compound	LCS %R (Limits)	LCSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		215LDLCS	GG	132 (63-120)	( )	( )	All	J/Pdet
			NN	221 (71-120)	( )	( )		
			UU	139 (75-120)	( )	( )		
			VV	43 (73-113)	( )	( )		J/UJ/P
			YY	53 (64-120)	( )	( )		
		-	DDD	207 (73-114)	( )	( )	except #11 for DDD	J/P det
		~~	GGG	1881 (63-143)	( )	( )		
			HHH	917 (54-142)	( )	( )		
			III	261 (58-129)	( )	( )		
			JJJ	258 (56-134)	( )	( )		
			KKK	635 (53-138)	( )	( )		
		✓	LLL	356 (66-159)	( )	( )	except #11 for LLL	
		-	XX	44 (75-137)	(→)	(BIK +)	#1, 2, 4, 5, 7, 9, 10, 11, 14	J/UJ/P
			AAA	0 (65-131)	(→)	( )	#1, 2, 4, 5, 7, 9, 10, 11, 14	J/R/P
			EEE	195 (67-143)	(→)	( )	#1, 2, 4, 5, 7, 10, 11, 14	J/Pdet
			FFF	~~1888~~ 1884 (68-162)	(→)	( )	#1, 2, 3, 5, 7, 9, 10, 11, 12, 13, 14	J/Pdet
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 26533A2h

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? (Fd)
Y N N/A Were target compounds identified in the field duplicate pairs?

Compound	Concentration (ug/kg)		≤ 50 RPD	
	~~13~~ 12	14		
III	5.4	1.8 U	200	J/UJ/A
GGG	6.7			
LLL	4.9			
HHH	5.6			
DDD	5.7			

Compound	Concentration (ug/kg)		≤ 50 RPD	
	13	14		
YY	4.1	1.8 U	200	J/UJ/A
FFF	60	19 U		
ZZ	4.4	1.8 U		

Compound	Concentration ( )		RPD

Compound	Concentration ( )		RPD

LDC #: 16533040D

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 (/ std)	Recalculated RRF (/ std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/9/11	~~Phenol (1st internal standard)~~						
			Naphthalene (2nd internal standard)	0.976	0.976	1.057	1.057	7	7
			Fluorene (3rd internal standard)	1.194	1.194	1.257	1.257	10	10
			~~Pentachlorophenol~~ Anthracene (4th internal standard)	1.002	1.002	1.042	1.042	13	13
			~~Bis(2-ethylhexyl)phthalate~~ Chrysene (5th internal standard)	1.110	1.110	1.153	1.153	6	6
			Benzo(a)pyrene (6th internal standard)	1.266	1.266	1.304	1.304	12	12
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 #: 26533A06

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 16.18	8/10/11	~~Phenol (1st internal standard)~~					
			Naphthalene (2nd internal standard)	1.057	0.987	0.987	7	7
			Fluorene (3rd internal standard)	1.257	1.202	1.202	4	4
			Anthracene ~~Pentachlorophenol~~ (4th internal standard)	1.042	1.006	1.006	3	3
			Chrysene ~~Bis(2-ethylhexyl)phthalate~~ (5th internal standard)	1.153	1.094	1.094	5	5
			Benzo(a)pyrene (6th internal standard)	1.304	1.283	1.283	2	2
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 #: 26533A2b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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	1.0	1.06	106	106	0
2-Fluorobiphenyl	↓	0.933	93	93	↓
Terphenyl-d14	↓	1.053	105	105	↓
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 #: 46533A1D

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike 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 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: 15 & 16

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	31.74	23.4	95	95	70	70	30	30
Pentachlorophenol											
Pyrene	↓	↓	4.14	31.84	24.08	83	83	60	60	28	28

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 #: [illegible]

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Page: 1 of 1
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: 915DLCS

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	44.04	NA	132	132				
Pentachlorophenol										
Pyrene	33.33	1	37.79	NA	113	113	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 #: 26533A2b

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. #1, Naphthalene

Conc. = $\frac{(74026)(1.0)(1)(1000)(\quad)}{(52630)(1.057)(30)(0.99)}$

=

4.48 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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: N-Nitrosodimethylamine

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5

Introduction

This data review covers 9 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 differences (%D) of the second source calibration standard were less than or equal to 30.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No N-nitrosodimethylamine was found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
SBLKLA213	8/2/11	N-Nitrosodimethylamine	40.2 ng/Kg	All samples in SDG DE208

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
SL-193-SA6-SS-0.0-0.5	N-Nitrosodimethylamine	17.0 ng/Kg	33.3U ng/Kg
SL-253-SA6-SS-0.0-0.5	N-Nitrosodimethylamine	17.2 ng/Kg	33.4U ng/Kg

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

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Laboratory Blank Data Qualification Summary - SDG DE208

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P	Code
DE208	SL-193-SA6-SS-0.0-0.5	N-Nitrosodimethylamine	33.3U ng/Kg	A	B
DE208	SL-253-SA6-SS-0.0-0.5	N-Nitrosodimethylamine	33.4U ng/Kg	A	B

Santa Susana Field Laboratory
N-Nitrosodimethylamine - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A2c **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FJ
2nd Reviewer:

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: 7/25/11
II.	GC/MS Instrument performance check	N	not Required
III.	Initial calibration	A	%D ≤ 30
IV.	Continuing calibration/ICV	A	CCV ≤ 20 ICV ≤ 30
V.	Blanks	SW	
VI.	Surrogate spikes	A	
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 RL/LOQ/LODs	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: COIL

1	SL-190-SA6-SS-0.0-0.5	11	SBLKLA213	21		31	
2	SL-192-SA6-SS-0.0-0.5	12		22		32	
3	SL-193-SA6-SS-0.0-0.5	13		23		33	
4	SL-245-SA6-SS-0.0-0.5	14		24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10		20		30		40	

LDC #: 26533A2c

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: e

Method: Semivolatiles ~~(EPA SW 846 Method 8270C)~~ 1625C

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 DFTPP 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%~~ 20 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. Surrogate spikes				
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 #: 26533A2c

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?	✓			
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 from 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/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 of data				
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.			✓	

LDC #: 26533A2C

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 analyzed for each concentration preparation level?
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.

(B)

Blank extraction date: 8/2/11 **Blank analysis date:** 8/10/11
Conc. units: ng/kg Associated Samples: All

Compound	Blank ID	Sample Identification								
	SBLKLA213	3		5						
N-Nitrosodimethylamine	40.2		17.0/33.3 U		17.2/33.4 U					

Blank extraction date: _____ **Blank analysis date:** _____
Conc. units: _____ Associated Samples: _____

Compound	Blank ID	Sample Identification								

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 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 #: 46533TdC

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

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 (25 std)	Recalculated RRF (25 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/9/11	~~Phenol (1st internal standard)~~ NDMA	1.043	1.043	0.983	0.983	13	13
			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 #: 26533A2C

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 10:13	8/10/11	~~Phenol (1st internal standard)~~ NDMA	0.98295	1.01349	1.01349	3.10669	3.10669
			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 14:23	8/10/11	Phenol (1st internal standard) ↓	↓	1.07193	1.07193	9.05168	9.052
			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 21:27	8/10/11	~~Phenol (1st internal standard)~~ ↓	↓	1.01542	1.01542	3.30243	3.30243
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
	CCV 01:00	8/11/11	Pentachlorophenol (4th internal standard) ↓	↓	1.07078	1.07078	8.934	8.934
			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 #: 26533A2c

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

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~~ NDMA-d6	25	21.517	86	86	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 #: 10533D4C

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 = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS/LCSD samples: 2/3 LALCS

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~~ NDMA	833.33	NA	830.01	NA	100	100	NA			
~~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 #: 26533702C

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. 3 , NDMA

Conc. = $\frac{(2337)(25)(1)(1000)(\quad)}{(116283)(0.983)(30)(0.99)(\quad)}$

= 17.20 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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Chlorinated Pesticides

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5

Introduction

This data review covers 11 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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
8/31/11	1P10242.55	RTX-CLPI	Endosulfan II Methoxychlor	23.1 21.7	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
8/31/11	1P10242.55	RTX-CLPII	Endosulfan II 4,4'-DDT Methoxychlor Endrin ketone	21.2 23.2 24.1 25.4	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects)	A
8/13/11	1P10242.56	RTX-CLPII	Mirex	20.8	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-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
8/30/11	ICV	RTX-CLPI	Endosulfan II	29.6	All samples in SDG DE208	J (all detects) UJ (all non-detects)	A

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% .

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
SL-268-SA6-SS-0.0-0.5	Not specified	Tetrachloro-m-xylene Decachlorobiphenyl	43 (50-130) 173 (20-120)	All TCL compounds	J (all detects) UJ (all non-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) 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 RLs

All compound quantitation and RLs 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
SL-190-SA6-SS-0.0-0.5	4,4'-DDE	91.81	J (all detects)	A
SL-245-SA6-SS-0.0-0.5	4,4'-DDE	60.38	J (all detects)	A
SL-253-SA6-SS-0.0-0.5	4,4'-DDE	46.69	J (all detects)	A
SL-256-SA6-SS-0.0-0.5	Chlordane (Technical)	91.79	J (all detects)	A
SL-268-SA6-SS-0.0-0.5	4,4'-DDT	51.60	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	Endosulfan II 4,4'-DDT Methoxychlor Endrin ketone Mirex	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	Endosulfan II	J (all detects) UJ (all non-detects)	A	Continuing calibration (ICV %D) (C)
DE208	SL-268-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Surrogate spikes (%R) (S)
DE208	SL-190-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5	4,4'-DDE	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE208	SL-256-SA6-SS-0.0-0.5	Chlordane (Technical)	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE208	SL-268-SA6-SS-0.0-0.5	4,4'-DDT	J (all detects)	A	Compound quantitation and RLs (RPD) (*XIII)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Chlorinated Pesticides - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A3a

VALIDATION COMPLETENESS WORKSHEET

SDG #: DE208

Level IV

Laboratory: Lancaster Laboratories

Date: 11/8/11

Page: 1 of 2

Reviewer: EJ

2nd Reviewer: C

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: 7/25/11
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	%RSD ≤20
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	A	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/RL/LOQ/LODs	SW	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	N	
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:

SOIL

1	SL-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21	PBLK07215	31	
2	SL-192-SA6-SS-0.0-0.5	12		22		32	
3	SL-193-SA6-SS-0.0-0.5	13		23		33	
4	SL-235-SA6-SS-0.0-0.5	14		24		34	
5	SL-236-SA6-SS-0.0-0.5	15		25		35	
6	SL-245-SA6-SS-0.0-0.5	16		26		36	
7	SL-253-SA6-SS-0.0-0.5	17		27		37	
8	SL-254-SA6-SS-0.0-0.5	18		28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

Notes: _____

LDC #: 26533A3a
SDG #: see cover

VALIDATION FINDINGS CHECKLIST

Reviewer: PR
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) $\leq$ 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 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?	✓	✓		
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 #: 26533A3a
SDG #: all cores

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 #: 26533A3c

VALIDATION FINDINGS WORKSHEET
Continuing 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".
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 ≤20.0%?
Level IV Only
Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?

(C)

#	Date	Standard ID	Detector/ Column	Compound	%D / RPD (Limit ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	8/30/11	ICV	RTX-CLP I	L	29.6	( )	All	J/UJ/A
						( )		
						( )		
						( )		
						( )		
	8/31/11	IP10242.55	RTX-CLP I	L	23.1	( )	1, 2, 8, 10, 11	J/UJ/A
				P	21.7	( )		
			RTX-CLP II	L	21.2	( )		
				Θ	23.2	( )		
				P	24.1	( )		
				Δ	25.4	( )		
						( )		
	8/31/11	IP10242.56	RTX-CLP II	Mirex	20.8	( )	↓	↓
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		

LDC #: 26533A3a

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
	11	NS	Y	43 (50-130)	J/UJ/P (S)
			0	173 (20-120)	↓
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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 #: 26533A39

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?

* XIII

#	Compound Name	% RPD Ref 20% / <40 Finding	Associated Samples	Qualifications
	J	91.81	1	J/A det * XIII
	J	60.38	6	↓
	J	46.69	7	↓
	chlordane (Technical)	91.79	10	↓
	O	51.60	11	↓

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26533A3c
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: JMT
2nd Reviewer: C

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	8/30/11	endosulfan I RTXclP	2.24×10^3	2.74×10^3	2.27×10^3	2.27×10^3	3.1	3.1
			Methoxychlor ↓	8.50×10^2	8.50×10^2	8.27×10^2	8.27×10^2	4.2	4.2
2			RTXclP2	2.11×10^3	2.11×10^3	2.26×10^3	2.26×10^3	15.6	15.6
			↓	6.94×10^2	6.94×10^2	7.15×10^2	7.15×10^2	13.3	13.3
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 #: 26533A35
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: M
2nd Reviewer: C

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	8/31/17	endosulfan I RT1 CLP1	10.0	9.26	9.26	7.4	7.4
	1:31		Methoxychlor	100.0	78.33	78.33	21.7	21.7
2			RT4 alp2	↓	8.63	8.63	13.7	13.7
			↓	↓	75.93	75.93	24.1	24.1
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 #: _____ VALIDATION FINDINGS WORKSHEET Page: 1 of 1

SDG #: per cover

Surrogate Results Verification

Reviewer: A

2nd reviewer: C

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: #1

Surrogate	Column	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
Tetrachloro-m-xylene						
Tetrachloro-m-xylene	RTXCLP2	1.04	0.925836	89	89	0
Decachlorobiphenyl	↓	1.04	0.925395	89	89	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 #: 26533A3S
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer:
2nd Reviewer:

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 = I LCS - LCSD I * 2/(LCS + LCSD)

LCS = Laboratory control sample percent recovery
LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS0721S

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	0.34	NA	0.28	NA	82	82				
4,4'-DDT	0.71	↓	0.65	↓	92	92	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 #: 26533A3C
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 9a m.ng BHC

Conc. = $\frac{(5785)(4/10)}{(3.54 \times 10^3)(60)(0.986}$

=

0.11 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: July 25, 2011

LDC Report Date: November 21, 2011

Matrix: Soil

Parameters: Polychlorinated Biphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 16 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Date	Standard	Column	Compound	%D	Associated Samples	Affected Compound	Flag	A or P
8/8/11	CCV (14:51)	ZBMultiR2	Aroclor-5442	20.5	SL-190-SA6-SS-0.0-0.5	Aroclor-5442 Aroclor-5432 Aroclor-5460	J (all detects) UJ (all non-detects)	A

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
SL-192-SA6-SS-0.0-0.5	Not specified	Decachlorobiphenyl	44 (45-120)	All TCL compounds	J (all detects) UJ (all non-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.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No polychlorinated biphenyl contaminants were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/lg)		RPD (Limits)	Flags	A or P
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Aroclor-5460	3.4	3.5U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Aroclor-1254	1.7	1.8U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5	Aroclor-5442 Aroclor-5432 Aroclor-5460	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (C)
DE208	SL-192-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) UJ (all non-detects)	A	Surrogate spikes (%R) (S)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Aroclor-5460 Aroclor-1254	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A3b **VALIDATION COMPLETENESS WORKSHEET** Date: 11/08/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories 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: 7/25/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	%D PSD ≤ 20
IV.	Continuing calibration/ICV	SW	ICV/CCV ≤ 20
V.	Blanks	A	
VI.	Surrogate spikes	SW	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	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/RL/LOQ/LODs	A	
XIV.	Overall assessment of data	A	
XV.	Field duplicates	SW	D = 12 & 14
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	SL-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21	PBLK132116	31	
2	SL-192-SA6-SS-0.0-0.5	12	SL-098-SA6-SB-2.0-3.0	22	PBLK132210	32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-289-SA6-SB-3.5-4.5	23		33	
4	SL-235-SA6-SS-0.0-0.5	14	DUP07-SA6-QC-072511	24		34	
5	SL-236-SA6-SS-0.0-0.5	15	SL-098-SA6-SB-2.0-3.0MS	25		35	
6	SL-245-SA6-SS-0.0-0.5	16	SL-098-SA6-SB-2.0-3.0MSD	26		36	
7	SL-253-SA6-SS-0.0-0.5	17		27		37	
8	SL-254-SA6-SS-0.0-0.5	18		28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

Notes: _____

LDC #: 26533A3b
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
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 #: 26533A3b
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 #: 26533A3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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".
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 ≤20.0%?
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 ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	8/8/11 14:51	CCV	ZB-5MS 1H R2	Aroclor 5442	20.5	( )	1	J/UJ/A (C)
						( )		
						( )		(Aroclor 5432,
						( )		5442,
						( )		5460)
						( )		
						( )		
						( )		
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						( )		
						( )		
						( )		

LDC #: 26533A3b

VALIDATION FINDINDS WORKSHEET
Surrogate Recovery

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
	2	NS	O	44 (45-120)	J/UJ/A (S)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
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				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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 #: 26533A3b

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?

(Fd)

Compound	Concentration (ng/kg)		%RPD Limit ≤ 50	Qualification Parent only / All Samples
	12	14		
Aroclor 5460	3.4	3.54	200	J/UJ/A
~~PCB~~ - 1254	1.7	1.84	200	↓

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 26533A3b
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: RJ
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

#	Standard ID	Calibration Date	Compound	Reported CF (200std)	Recalculated CF (200std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	IP20214 ICAL	8/2/11	1260 / ZBMuHiR1	51	51	55	55	6.8	6.8
			↓ ZBMuHiR2	266	266	280	280	5.7	5.7
2	IP20223 ICAL	8/11/11	↓	37	37	39	39	8.0	8.0
				237	237	238	238	4.0	4.0
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 #: 76533f3b
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: E

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 23:09	8/5/11	Aroclor 1260 ZB multi R1	200.00	197.31	197.31	1.3	1.3
			ZB multi R2	200.00	201.03	201.03	0.5	0.5
2	CCV 6:15	8/6/11	↓	↓	166.24	166.24	16.9	16.9
			↓	↓	163.42	163.42	18.3	18.3
3	CCV 14:14	8/8/11	↓	↓	199.40	199.40	0.3	0.3
			↓	↓	195.78	195.78	2.1	2.1
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 #: 63[illegible]

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 10X

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
TCMX	ZBMultiR2	104	0.949644	91	91	0
DCB	↓	104	1.194678	115	115	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: [illegible]

Reviewer: [illegible]

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: 15 + 16

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	ND	13.78	16.01	83	83	96	96	15	15

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 #: 26533F35
SDG #: pu cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: P
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 = 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/D 13216

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	19.66	NA	118	118	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 #: 26533#3b
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= (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 1254

Concentration = 123.45 / 0.986

= 125.20 ug/kg

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	1254-1 = 9436.365234 (20)	39.564 (60)	1254-1 =	79.5029	
			2 =	69.4480	
			3 =	82.594	
	=	79.50	4 =	71.703	
			5 =	152.52	
			6 =	784.958	
				12345	

Comments: [illegible]

SAMPCALew.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Metals

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD
SL-098-SA6-SB-2.0-3.0DUP

Introduction

This data review covers 17 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B, 6020, and 7471A 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 Boron Calcium Iron Manganese Phosphorus Strontium Tin Zirconium	6.171 mg/Kg 0.807 mg/Kg 13.291 mg/Kg 5.725 mg/Kg 0.042 mg/Kg 1.248 mg/Kg 0.075 mg/Kg 1.671 mg/Kg 0.557 mg/Kg	All samples in SDG DE208
ICB/CCB	Titanium	0.13 ug/L	SL-190-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0
ICB/CCB	Titanium	0.17 ug/L	SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB\CCB	Lead	0.36 ug/L	SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511

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-190-SA6-SS-0.0-0.5	Boron Tin Zirconium	2.8 mg/Kg 2.6 mg/Kg 1.8 mg/Kg	2.8U mg/Kg 2.6U mg/Kg 1.8U mg/Kg
SL-192-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.8 mg/Kg 2.2 mg/Kg 1.5 mg/Kg	1.8U mg/Kg 2.2U mg/Kg 1.5U mg/Kg
SL-193-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.3 mg/Kg 2.2 mg/Kg 2.4 mg/Kg	1.3U mg/Kg 2.2U mg/Kg 2.4U mg/Kg
SL-235-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.2 mg/Kg 2.2 mg/Kg 2.0 mg/Kg	1.2U mg/Kg 2.2U mg/Kg 2.0U mg/Kg
SL-236-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.97 mg/Kg 2.4 mg/Kg 2.6 mg/Kg	0.97U mg/Kg 2.4U mg/Kg 2.6U mg/Kg
SL-245-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.98 mg/Kg 2.2 mg/Kg 2.5 mg/Kg	0.98U mg/Kg 2.2U mg/Kg 2.5U mg/Kg
SL-253-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.2 mg/Kg 2.5 mg/Kg 2.3 mg/Kg	1.2U mg/Kg 2.5U mg/Kg 2.3U mg/Kg
SL-254-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.86 mg/Kg 3.3 mg/Kg 2.5 mg/Kg	0.86U mg/Kg 3.3U mg/Kg 2.5U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
SL-255-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.93 mg/Kg 2.2 mg/Kg 1.8 mg/Kg	0.93U mg/Kg 2.2U mg/Kg 1.8U mg/Kg
SL-256-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.9 mg/Kg 2.4 mg/Kg 2.5 mg/Kg	1.9U mg/Kg 2.4U mg/Kg 2.5U mg/Kg
SL-268-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.76 mg/Kg 1.1 mg/Kg 1.5 mg/Kg	0.76U mg/Kg 1.1U mg/Kg 1.5U mg/Kg
SL-098-SA6-SB-2.0-3.0	Tin Zirconium	0.49 mg/Kg 2.2 mg/Kg	0.49U mg/Kg 2.2U mg/Kg
SL-289-SA6-SB-3.5-4.5	Boron Tin Zirconium	1.4 mg/Kg 2.2 mg/Kg 2.3 mg/Kg	1.4U mg/Kg 2.2U mg/Kg 2.3U mg/Kg
DUP07-SA6-QC-072511	Tin Zirconium	2.3 mg/Kg 2.0 mg/Kg	2.3U mg/Kg 2.0U 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-098-SA6-SB-2.0-3.0MS/MSD (All samples in SDG DE208)	Antimony	39 (75-125)	29 (75-125)	-	J (all detects) R (all non-detects)	A
SL-098-SA6-SB-2.0-3.0MS/MSD (All samples in SDG DE208)	Cobalt Cadmium	- -	- -	21 (≤20) 22 (≤20)	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-098-SA6-SB-2.0-3.0MS/MSD (All samples in SDG DE208)	Arsenic	147 (75-125)	-	-	J (all detects)	A
	Beryllium	127 (75-125)	-	-	J (all detects)	
	Chromium	126 (75-125)	-	-	J (all detects)	
	Copper	136 (75-125)	-	-	J (all detects)	
	Lead	156 (75-125)	-	-	J (all detects)	
	Molybdenum	130 (75-125)	-	-	J (all detects)	
	Nickel	140 (75-125)	-	-	J (all detects)	
	Selenium	126 (75-125)	-	-	J (all detects)	
	Silver	129 (75-125)	-	-	J (all detects)	
	Thallium	133 (75-125)	-	-	J (all detects)	
	Vanadium	141 (75-125)	-	-	J (all detects)	
	Cadmium	134 (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-098-SA6-SB-2.0-3.0DUP (All samples in SDG DE208)	Calcium	21 (≤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-098-SA6-SB-2.0-3.0	Aluminum Vanadium	11 (≤10) 14 (≤10)	All samples in SDG DE208	J (all detects) UJ (all non-detects) 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 DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 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
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Aluminum	12600	12400	2 (≤50)	-	-
Antimony	0.17	0.17	0 (≤50)	-	-
Arsenic	5.1	6.9	30 (≤50)	-	-
Barium	93.4	123	27 (≤50)	-	-
Beryllium	0.53	0.78	38 (≤50)	-	-
Cadmium	0.20	0.14	35 (≤50)	-	-
Calcium	7920	5040	44 (≤50)	-	-
Chromium	20.4	29.8	37 (≤50)	-	-

Analyte	Concentration (mg/Kg)		RPD (Limits)	Flags	A or P
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Cobalt	6.8	9.7	35 (≤50)	-	-
Copper	11.1	12.7	13 (≤50)	-	-
Iron	19800	24000	19 (≤50)	-	-
Lead	6.8	6.4	6 (≤50)	-	-
Lithium	25.0	28.6	13 (≤50)	-	-
Magnesium	5690	6090	7 (≤50)	-	-
Manganese	272	280	3 (≤50)	-	-
Mercury	0.026	0.0076U	200 (≤50)	J (all detects) UJ (all non-detects)	A
Molybdenum	0.68	1.3	63 (≤50)	J (all detects)	A
Nickel	14.0	19.1	31 (≤50)	-	-
Phosphorus	401	408	2 (≤50)	-	-
Potassium	2810	2840	1 (≤50)	-	-
Selenium	0.16	0.11	37 (≤50)	-	-
Silver	0.037	0.032	14 (≤50)	-	-
Sodium	238	148	47 (≤50)	-	-
Strontium	24.6	14.9	49 (≤50)	-	-
Thallium	0.29	0.39	29 (≤50)	-	-
Tin	0.49	2.3	130 (≤50)	J (all detects)	A
Titanium	991	1210	20 (≤50)	-	-
Vanadium	37.9	52.3	32 (≤50)	-	-
Zinc	74.3	89.7	19 (≤50)	-	-
Zirconium	2.2	2.0	10 (≤50)	-	-

Santa Susana Field Laboratory
Metals - Data Qualification Summary - SDG DE208

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Antimony	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Cobalt Cadmium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (RPD) (E)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Arsenic Beryllium Chromium Copper Lead Molybdenum Nickel Selenium Silver Thallium Vanadium Cadmium	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)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Calcium	J (all detects) UJ (all non-detects)	A	Duplicate sample analysis (RPD) (E)

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Aluminum Vanadium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	ICP serial dilution (%D) (A)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Mercury	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Molybdenum Tin	J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Metals - Laboratory Blank Data Qualification Summary - SDG DE208

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE208	SL-190-SA6-SS-0.0-0.5	Boron Tin Zirconium	2.8U mg/Kg 2.6U mg/Kg 1.8U mg/Kg	A	B
DE208	SL-192-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.8U mg/Kg 2.2U mg/Kg 1.5U mg/Kg	A	B
DE208	SL-193-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.3U mg/Kg 2.2U mg/Kg 2.4U mg/Kg	A	B
DE208	SL-235-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.2U mg/Kg 2.2U mg/Kg 2.0U mg/Kg	A	B

SDG	Sample	Analyte	Modified Final Concentration	A or P	Code
DE208	SL-236-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.97U mg/Kg 2.4U mg/Kg 2.6U mg/Kg	A	B
DE208	SL-245-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.98U mg/Kg 2.2U mg/Kg 2.5U mg/Kg	A	B
DE208	SL-253-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.2U mg/Kg 2.5U mg/Kg 2.3U mg/Kg	A	B
DE208	SL-254-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.86U mg/Kg 3.3U mg/Kg 2.5U mg/Kg	A	B
DE208	SL-255-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.93U mg/Kg 2.2U mg/Kg 1.8U mg/Kg	A	B
DE208	SL-256-SA6-SS-0.0-0.5	Boron Tin Zirconium	1.9U mg/Kg 2.4U mg/Kg 2.5U mg/Kg	A	B
DE208	SL-268-SA6-SS-0.0-0.5	Boron Tin Zirconium	0.76U mg/Kg 1.1U mg/Kg 1.5U mg/Kg	A	B
DE208	SL-098-SA6-SB-2.0-3.0	Tin Zirconium	0.49U mg/Kg 2.2U mg/Kg	A	B
DE208	SL-289-SA6-SB-3.5-4.5	Boron Tin Zirconium	1.4U mg/Kg 2.2U mg/Kg 2.3U mg/Kg	A	B
DE208	DUP07-SA6-QC-072511	Tin Zirconium	2.3U mg/Kg 2.0U mg/Kg	A	B

Santa Susana Field Laboratory
Metals - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11-7-11

SDG #: DE208 Level IV Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: W

METHOD: Metals (EPA SW 846 Method 6010B/6020A/~~7000~~ 7471A)

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: 7/25/11
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	(12,14)
XV	Field Blanks	N	

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

Validated Samples: Soil

1	SL-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21		31	
2	SL-192-SA6-SS-0.0-0.5	12	SL-098-SA6-SB-2.0-3.0	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-289-SA6-SB-3.5-4.5	23		33	
4	SL-235-SA6-SS-0.0-0.5	14	DUP07-SA6-QC-072511	24		34	
5	SL-236-SA6-SS-0.0-0.5	15	SL-098-SA6-SB-2.0-3.0MS	25		35	
6	SL-245-SA6-SS-0.0-0.5	16	SL-098-SA6-SB-2.0-3.0MSD	26		36	
7	SL-253-SA6-SS-0.0-0.5	17	SL-098-SA6-SB-2.0-3.0DUP	27		37	
8	SL-254-SA6-SS-0.0-0.5	18		28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

Notes: _____

DC #: 26533A4

VALIDATION FINDINGS CHECKLIST

Reviewer: CR
2nd Reviewer: [illegible]

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 #: 26539 14

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: CR
2nd reviewer: JV

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
QC-151		Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mo, Mn, Hg, Ni, P, K, Se, Ag, Na, Sr, Tl, Sn, Ti, V, Zn, Zr

LDC #: 26533A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer:
2nd Reviewer:

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

Analyte	Maximum PB[a] (mg/Kg)	Action Limit	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Al	6.171	30.86														
B	0.807	4.035	2.8	1.8	1.3	1.2	0.97	0.98	1.2	0.86	0.93	1.9	0.76		1.4	
Ca	13.291	66.46														
Fe	5.725	28.63														
Mn	0.042	0.21														
P	1.248	6.24														
Sr	0.075	0.375														
Sn	1.671	8.355	2.6	2.2	2.2	2.2	2.4	2.2	2.5	3.3	2.2	2.4	1.1	0.49	2.2	2.3
Zr	0.557	2.785	1.8	1.5	2.4	2.0	2.6	2.5	2.3	2.5	1.8	2.5	1.5	2.2	2.3	2.0

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1, 12

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers									
Ti			0.13	0.07										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 2-11, 13, 14

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers									
Ti			0.17	0.09										

Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 3-11, 13, 14

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Qualifiers									
Pb			0.36	0.18										

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 #: 26533A4

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

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 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	(ug/L) Finding	Associated Samples	Qualifications
	8/3/11	ICSA (05:57)	Mn	4 (<0.36)	All	No Qual (<10x)

Comments:

LDC #: 26533A4

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
	15/16	S	Sb	39	29		All	J/R/A Q (PS=70%)
			As	147				Jdet/A
			Be	127				↓
			~~Cd~~	~~134~~		~~22~~		~~J/UJ/A~~ Q
			Cr	126				Jdet/A ↓
			Co			21		J/UJ/A E
			Cu	136				Jdet/A Q
			Pb	156				
			Mo	130				
			Ni	140				
			Se	126				
			Ag	129				
			Tl	133				
			V	141				
			Cd	134				Jdet/A ↓
			Cd			22		J/UJ/A E

Comments:

LDC #: 26533A4

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
		17	S	Ca	21 (≤20)		All	J/UJ/A (E)

Comments: _____

LDC #: 26533J4

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
		12	S	Al	11	All	J/UJ/A (A)
				V	14	↓	↓

Comments:

LDC#: 26533A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer:
2nd Reviewer:

METHOD: Metals (EPA Method 6010B/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)		RPD (≤50)	Qualifiers: Parents Only
	12	14		
Aluminum	12600	12400	2	
Antimony	0.17	0.17	0	
Arsenic	5.1	6.9	30	
Barium	93.4	123	27	
Beryllium	0.53	0.78	38	
Cadmium	0.20	0.14	35	
Calcium	7920	5040	44	
Chromium	20.4	29.8	37	
Cobalt	6.8	9.7	35	
Copper	11.1	12.7	13	
Iron	19800	24000	19	
Lead	6.8	6.4	6	
Lithium	25.0	28.6	13	
Magnesium	5690	6090	7	
Manganese	272	280	3	
Mercury	0.026	0.0076U	200	J/UJ/A (FD)
Molybdenum	0.68	1.3	63	Jdet/A (FD)
Nickel	14.0	19.1	31	
Phosphorus	401	408	2	

LDC#: 26533A4

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: ___
2nd Reviewer: ___

METHOD: Metals (EPA Method 6010B/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)		RPD (≤50)	Qualifiers: Parents Only
	12	14		
Potassium	2810	2840	1	
Selenium	0.16	0.11	37	
Silver	0.037	0.032	14	
Sodium	238	148	47	
Strontium	24.6	14.9	49	
Thallium	0.29	0.39	29	
Tin	0.49	2.3	130	Jdet/A (FD)
Titanium	991	1210	20	
Vanadium	37.9	52.3	32	
Zinc	74.3	89.7	19	
Zirconium	2.2	2.0	10	

LDC #: 26553A4

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)	Li	587.02	600	97.8	97.8	Y
ICV	ICP/MS (Initial calibration)	Cu	471.00	500	94.2	94.2	
ICV	CVAA (Initial calibration)	Hg	2.48	2.5	99.2	99.2	
CCV2 (06:55)	ICP (Continuing calibration)	Ti	492.66	500	98.5	98.5	
CCV2 (13:28)	ICP/MS (Continuing calibration)	V	230.80	250	92.3	92.3	
CCV3 (10:08)	CVAA (Continuing calibration)	Hg	0.81	1	81.0	81.0	
	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 #: 26533A4

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)	True / D / SDR (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Zn	20.1	20.0	100.5	100.5	Y
LCS	Laboratory control sample	P	1041.6	1000	104	104	
15	Matrix spike	Pb	(SSR-SR) 4.8597	3.1091	156	156	
17	Duplicate	V	37.8720	40.2313	6	6	
12	ICP serial dilution	Pb	33.590	35.0650	4	4	

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 #: 26533A4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 3
Reviewer: AR
2nd reviewer: W

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 Fe 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:

$$\frac{(100mL)(177.1260\ mg/L)}{0.986(1.02g)} = 17611.9\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	Al	12600	12600	Y
		Sb	0.31	0.31	
		As	6.2	6.2	
		Ba	118	118	
		Be	0.70	0.70	
		B	2.8	2.8	
		Cd	0.47	0.47	
		Ca	3500	3500	
		Cr	20.7	20.7	
		Co	7.9	7.9	
		Cu	13.5	13.5	
		Fe	17600	17600	
		Pb	27.8	27.8	
		Li	26.2	26.2	
		Mg	3780	3780	
		Mn	318	318	
		Hg	0.058	0.058	
		Mo	1.1	1.1	
		Ni	15.1	15.1	
		P	459	459	

Note:

LDC #: 26533A4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: AC
2nd reviewer: V

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 Cd 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:

$$\frac{(100mL)(2)(0.9618\ \mu g/L)}{0.946(1.04g)(1000)} = 0.196\ mg/kg$$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
	1	K	3600	3600	Y
		Se	0.25	0.25	
		Ag	1.7	1.7	
		Na	67.9	67.9	
		Sc	24.3	24.3	
		Tl	0.35	0.35	
		Sn	2.6	2.6	
		Ti	964	964	
		V	34.0	34.0	
		Zn	194	194	
		Zr	1.8	1.8	
	12	Al	12600	12600	
		Sb	0.17	0.17	
		As	5.1	5.1	
		Ba	93.4	93.4	
		Be	0.53	0.53	
		Cd	0.20	0.20	
		Ca	7920	7920	
		Cr	20.4	20.4	
		Co	6.8	6.8	

Note:

LDC #: 26533A4

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 3 of 3
Reviewer: CC
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 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 = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation:

See previous page

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)
	12	Fe	19800	19800	
		Pb	6.8	6.8	
		Li	25.0	25.0	
		Mg	5690	5690	
		Mn	272	272	
		Hg	0.026	0.026	
		Mo	0.68	0.68	
		Ni	14.0	14.0	
		P	401	401	
		K	2810	2810	
		Se	0.16	0.16	
		Ag	0.037	0.037	
		Na	238	238	
		Sr	24.6	24.6	
		Tl	0.29	0.29	
		Sn	0.49	0.49	
		Ti	991	991	
		V	37.9	37.9	
		Zn	74.3	74.3	
		Zr	2.2	2.2	

Note: _____

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	July 25, 2011
LDC Report Date:	November 9, 2011
Matrix:	Soil
Parameters:	Herbicides
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5

Introduction

This data review covers 11 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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
8/9/11 (13:05)	1H15221.04	ZB-XLB	MCPP MCPA	23.6 22.1	PBLK18220	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
8/9/11 (18:38)	1H15221.16	ZB-XLB	MCPP MCPA	23.1 20.1	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
8/10/11 (00:09)	1H15221.28	ZB-XLB	MCPP	22.7	SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	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 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

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 RLs

All compound quantitation and RLs 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
SL-190-SA6-SS-0.0-0.5	2,4-DB	66.83	J (all detects)	A
SL-192-SA6-SS-0.0-0.5	2,4-DP 2,4-DB	70.91 51.02	J (all detects) J (all detects)	A
SL-236-SA6-SS-0.0-0.5	2,4-DB	90.43	J (all detects)	A
SL-253-SA6-SS-0.0-0.5	2,4-DB	85.81	J (all detects)	A

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5	MCPP MCPA	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
DE208	SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	MCPP	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D) (c)
DE208	SL-192-SA6-SS-0.0-0.5	2,4-DP 2,4-DB	J (all detects) J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE208	SL-190-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5	2,4-DB	J (all detects)	A	Compound quantitation and RLs (RPD) (*IX)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Herbicides - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Herbicides - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A5 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer:
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: 7/25/11
II	Initial calibration	A	0% RSD ≤20
III.	Calibration verification/ICV	SW	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/RL/LOQ/LODs	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-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21	PBLK18220	31	
2	SL-192-SA6-SS-0.0-0.5	12		22		32	
3	SL-193-SA6-SS-0.0-0.5	13		23		33	
4	SL-235-SA6-SS-0.0-0.5	14		24		34	
5	SL-236-SA6-SS-0.0-0.5	15		25		35	
6	SL-245-SA6-SS-0.0-0.5	16		26		36	
7	SL-253-SA6-SS-0.0-0.5	17		27		37	
8	SL-254-SA6-SS-0.0-0.5	18		28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26533A5
SDG #: all waters

VALIDATION FINDINGS CHECKLIST

Reviewer: FM
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 #: 26533A5
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.			✓	

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 #: 26533A5

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

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".
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 ≤20.0%?
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 ≤ 20.0)	RT (limit)	Associated Samples	Qualifications
	8/9/11	IH15221.04	ZB-XLB	I	23.6	( )	PBLK/8220	J/UJ/A (c)
	13:05			J	22.1	( )	↓	↓
						( )		
						( )		
						( )		
	8/9/11	IH15221.16	ZB-XLB	I	23.1	( )	1 → 7	↓ (c)
	18:38			J	20.1	( )	↓	
						( )		
						( )		
						( )		
						( )		
	8/10/11	IH15221.28	ZB-XLB	I	22.7	( )	8 → 11	↓ (c)
	0:09			~~J~~		( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		
						( )		

LDC #: 26533A5

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

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".

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 Finding co/ ± 40	Associated Samples	Qualifications
	~~B~~ 2,4-DB	66.83	1	J/A det (*1X)
	2,4-DP	70.91	2	↓ (*1X)
	2,4-DB	51.02		
	2,4-DB	90.43	5	↓ (*1X)
	2,4-DB	85.81	7	↓ (*1X)
	~~MCPA~~		~~10~~	
	~~2,4,5-T~~	~~114.40~~	~~11~~	

Comments: See sample calculation verification worksheet for recalculations

LDC #: 26533A5
SDG #: see cover

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 (200.6/100.7 std)	Recalculated CF (std)	Reported Average CF (Initial)	Recalculated Average CF (Initial)	Reported %RSD	Recalculated %RSD
1	ICAL	8/2/11	2,4-D ZB-XLB	1.32×10^{-1}	1.32×10^{-1}	1.28×10^{-1}	1.28×10^{-1}	9.9	9.9
			Dinoseb	3.82×10^{-1}	3.82×10^{-1}	4.26×10^{-1}	4.26×10^{-1}	17.6	17.0
			ZB-35	1.44×10^{-1}	1.44×10^{-1}	1.42×10^{-1}	1.42×10^{-1}	12.3	12.3
2			↓	3.70×10^{-1}	3.70×10^{-1}	4.13×10^{-1}	4.13×10^{-1}	16.2	16.2
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 #: 26533A5
SDG #: w Conn

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	BCV 13:05	8/9/11	2,4-D ZB-XLB	200.60	205.49	205.49	2.4	2.4
			Dinoseb ↓	100.70	81.48	81.48	19.1	19.1
			↓ ZB-35	200.60	195.00	195.00	2.8	2.8
2			↓	100.70	89.10	89.10	11.5	11.5
	ccv 18:38	8/9/11	2,4-D ZB-XLB	200.60	203.24	203.24	1.3	1.3
			Dinoseb ↓	100.70	82.09	82.09	18.5	18.5
3			↓ ZB-35	200.60	202.21	202.21	0.8	0.8
			↓	100.70	88.49	88.49	12.1	12.1
	ccv 009	8/10/11	2,4-D ZB-XLB	200.60	206.49	206.49	2.9	2.9
4			Dinoseb ↓	100.70	80.77	80.77	19.8	19.8
			↓ ZB-35	200.60	192.13	192.13	4.2	4.2
			↓	100.70	85.44	85.44	15.2	15.2

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 #: 46535M3

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	
2,4-DCAA	ZB-XLB	6.654	5.7/5397	86	86	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 #: 26533A5
SDG #: pc cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FO
2nd Reviewer: [signature]

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 18220

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	6.8	NA	82	82				
Dinoseb (8151)	14.18	↓	2.2	↓	16	16	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 #: 26533AJ
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 DB

Concentration = $\frac{4150 \quad (100) \quad (2)}{76825 \quad (8.63 \times 10^{-2}) \quad (60.1) \quad (0.986)}$

$= 2.1 \text{ ug/kg}$

#	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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Wet Chemistry

Validation Level: Level IV

Laboratory, Area IV: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-235-SA6-SS-0.0-0.5
SL-236-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0DUP
SL-190-SA6-SS-0.0-0.5MS
SL-190-SA6-SS-0.0-0.5DUP

Introduction

This data review covers 18 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 Nitrate and Fluoride, EPA SW 846 Method 7199 for Hexavalent Chromium, 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 deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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-190-SA6-SS-0.0-0.5MS (SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5)	Fluoride	60 (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 DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No contaminant concentrations were detected in any of the samples with the following exceptions:

Analyte	Concentration (mg/L)		RPD (Limits)	Flags	A or P
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Fluoride	3.1	4.0	25 (≤50)	-	-
Hexavalent chromium	0.97	0.21U	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Wet Chemistry - Data Qualification Summary - SDG DE208

SDG	Sample	Analyte	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5	Fluoride	J (all detects) UJ (all non-detects)	A	Matrix spike (%R) (Q)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All analytes reported below the RL and above the MDL.	J (all detects)	A	Sample result verification (Z)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Hexavalent chromium	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Wet Chemistry – Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Wet Chemistry - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A6

SDG #: DE208

Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 1-7-11

Page: 1 of 1

Reviewer: CR

2nd Reviewer: [illegible]

METHOD: (Analyte) Cyanide (EPA SW846 Method 9012B), Nitrate-N, Fluoride (EPA Method 300.0), Hexavalent Chromium (EPA SW846 Method 7199), Perchlorate (EPA Method 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: 7/25/11
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
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	SW	(12,14)
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	SL-190-SA6-SS-0.0-0.5	11	SL-268-SA6-SS-0.0-0.5	21		31	
2	SL-192-SA6-SS-0.0-0.5	12	SL-098-SA6-SB-2.0-3.0	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-289-SA6-SB-3.5-4.5	23		33	
4	SL-235-SA6-SS-0.0-0.5	14	DUP07-SA6-QC-072511	24		34	
5	SL-236-SA6-SS-0.0-0.5	15	SL-098-SA6-SB-2.0-3.0MS	25		35	
6	SL-245-SA6-SS-0.0-0.5	16	SL-098-SA6-SB-2.0-3.0DUP	26		36	
7	SL-253-SA6-SS-0.0-0.5	17	(12) MS	27		37	
8	SL-254-SA6-SS-0.0-0.5	18	↓ DUP	28		38	
9	SL-255-SA6-SS-0.0-0.5	19		29		39	
10	SL-256-SA6-SS-0.0-0.5	20		30		40	

Notes:

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.			✓	

DC #: 26533A6

VALIDATION FINDINGS WORKSHEET
Sample Specific Analysis Reference

Reviewer: CR
2nd reviewer: W

ll circled methods are applicable to each sample.

Sample ID	Matrix	Parameter
1-3, 6 11		pH TDS Cl (F) (NO3) NO2 SO4 PO4 ALK (CN-) NH3 TKN TOC (CR6+) (ClO4)
5, 12-14		pH TDS Cl (F) NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC (CR6+) (ClO4)
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl (F) NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC (CR6+) (ClO4)
X: 15, 16 17, 18		pH TDS Cl F NO3 NO2 SO4 PO4 ALK (CN-) NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4
		pH TDS Cl F NO3 NO2 SO4 PO4 ALK CN- NH3 TKN TOC CR6+ ClO4

Comments:

LDC #: 26533M6

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: SM
2nd Reviewer:

METHOD: Inorganics, EPA Method 300.0

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 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	S	Florida	60	-	80 - 120	1-10	J/UJ/A (a)

Comments:

LDC# 26533A6

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: [signature]
2nd Reviewer: [signature]

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/L)		RPD (≤50)	Qualifiers: Parents Only
	12	14		
Fluoride	3.1	4.0	25	
Hexavalent Chromium	0.97	0.21U	200	J/UJ/A

V:\FIELD DUPLICATES\FD_inorganic\26533A6.wpd

LDC #: 26533A6

Validation Findings Worksheet
Initial and Continuing Calibration Calculation Verification

Reviewer: CR
2nd Reviewer: VA

Method: Inorganics, Method ~~314.0~~ see cover

The correlation coefficient (r) for the calibration of ~~ClO4~~ ClO4 was recalculated. Calibration date: 8/9/11

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)	Area	Recalculated r or r^2	Reported r or r^2	Acceptable (Y/N)
Initial calibration	~~ClO4~~ ClO4	s1	0.0	0.00000	*0.9995*	0.9999	Y
		s2	10	0.04210			
		s3	50	0.45780			
		s4	100	1.05410			
		s5	200	2.11320			
		s6	300	3.21470			
Calibration verification	F	CCV	1.5	1.5150	101	101	
Calibration verification	NO3	↓	1.5	1.4702	98	98	
Calibration verification	CN	↓	0.15	0.15340	102	102	✓

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 #: _____

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: QR
2nd Reviewer: L

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	NO3	10.1	10	101	—	Y
15	Matrix spike sample	dup	(SSR-SR) 4.98	4.97	100	100	↓
16	Duplicate sample	F	2.9	3.0	4	4	↓

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 #: 26533A6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: CR
2nd reviewer: V

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: $y = 0.1962x - 0.0037$

Cr^{6+} = Area(95.7896) + 3.0158

Recalculation:

1: $F = \frac{(0.02 + 0.0037)50mL}{0.1962(4.95g)(0.986)} = 1.2 mg/kg$

12: $Cr^{6+} = \frac{(0.1966(95.7896) + 3.0158)}{25.2(0.9194)} = 0.94 mg/kg$

#	Sample ID	Analyte	Reported Concentration (mg/kg)	Calculated Concentration (mg/kg)	Acceptable (Y/N)
0.986	1	F	1.2	1.2	Y
		NO_3	1.4	1.4	
0.9194	12	F	3.1	3.1	
		Cr^{6+}	0.97	0.94	

Note:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Santa Susana Field Laboratory
Collection Date:	July 25, 2011
LDC Report Date:	November 9, 2011
Matrix:	Soil/Water
Parameters:	Total Petroleum Hydrocarbons as Gasoline
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE208

Sample Identification

SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
TB-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 5 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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-072511 was identified as a trip blank. No total petroleum hydrocarbons as gasoline contaminants were found.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511 TB-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Gasoline - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A7 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 7/25/11
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/D
VIII.	Target compound identification	A	
IX.	Compound quantitation RL/LOQ/LODs	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	SL-098-SA6-SB-2.0-3.0 S	11 1	BLKPY	21		31	
2 1	SL-289-SA6-SB-3.5-4.5	12 2	BLKRO	22		32	
3 1	DUP07-SA6-QC-072511	13		23		33	
4 2	TB-072511 W	14		24		34	
5 1	SL-098-SA6-SB-2.0-3.0MS	15		25		35	
6 1	SL-098-SA6-SB-2.0-3.0MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

.DC #: 26533A7
SDG #: all waters

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FM
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 #: 26533A7
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: C

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 #: 26533A7
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PJ
2nd Reviewer: C

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 (220 std)	Recalculated CF (220 std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/29/11	GRO	35488	35488	37329	37329	12.7	12.7
				(550)	(550)				
2	ICAL	7/21/11	GRO	7092	7092	6764	6764	8.0	8.0
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 #: 26533A7
SDG #: per cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
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 9:05	7/28/11	GRO	220.00	190.81	190.81	13.3	13.3
2	CCV 11:00	8/3/11	GRO	550.0	534.35	534.35	2.8	2.8
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 #: [illegible]

SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

2nd reviewer: A

METHOD: ~~GC~~ 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	
TFT	NS	699.	566.03/43	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: [illegible] 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: 5 + 6

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)	9.93	9.93	ND	6.87	7.56	69	69	73	73	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 #: 26533A7
SDG #: all covers

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 = 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: LCSNJ

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	NA	7.47	NA	68	68	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 #: 26533A7
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:	July 25, 2011
LDC Report Date:	November 9, 2011
Matrix:	Soil
Parameters:	Total Petroleum Hydrocarbons as Extractables
Validation Level:	Level IV
Laboratory:	Lancaster Laboratories
Sample Delivery Group (SDG):	DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 14 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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-098-SA6-SB-2.0-3.0MS/MSD (SL-098-SA6-SB-2.0-3.0)	Extractable fuel hydrocarbons (C8-C11)	-	-	21 (≤20)	J (all detects)	A
	Extractable fuel hydrocarbons (C15-C20)	-	134(49-123)	29 (≤20)	J (all detects)	
	Extractable fuel hydrocarbons (C21-C30)	-	488(49-123)	132 (≤20)	J (all detects)	
	Extractable fuel hydrocarbons (C30-C40)	-	1213(49-123)	176 (≤20)	J (all detects)	

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 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
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
Extractable fuel hydrocarbons (C30-C40)	0.65	3.1	131 (≤50)	J (all detects)	A
Extractable fuel hydrocarbons (C21-C30)	1.3U	1.5	200 (≤50)	J (all detects) UJ (all non-detects)	A

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-098-SA6-SB-2.0-3.0	Extractable fuel hydrocarbons (C8-C11)	J (all detects)	A	Matrix spike/Matrix spike duplicate (RPD) (Q)
DE208	SL-098-SA6-SB-2.0-3.0	Extractable fuel hydrocarbons (C15-C20) Extractable fuel hydrocarbons (C21-C30) Extractable fuel hydrocarbons (C30-C40)	J (all detects) J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicate (%R)(RPD) (Q)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Extractable fuel hydrocarbons (C30-C40)	J (all detects)	A	Field duplicates (RPD) (FD)
DE208	SL-098-SA6-SB-2.0-3.0 DUP07-SA6-QC-072511	Extractable fuel hydrocarbons (C21-C30)	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 DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Total Petroleum Hydrocarbons as Extractables - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A8 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 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: 7/25/11
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 (RL/LOQ/LODs)	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	SW	D = 10 + 12
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-190-SA6-SS-0.0-0.5	11	SL-289-SA6-SB-3.5-4.5	21	PBLK29216	31	
2	SL-192-SA6-SS-0.0-0.5	12	DUP07-SA6-QC-072511	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-098-SA6-SB-2.0-3.0MS	23		33	
4	SL-245-SA6-SS-0.0-0.5	14	SL-098-SA6-SB-2.0-3.0MSD	24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10	SL-098-SA6-SB-2.0-3.0	20		30		40	

Notes: _____

.DC #: 26533 AS
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
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?			✓	

.DC #: 26533 A8
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.			✓	

LDC #: 26533A8

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
	13+14	EFH (C8-C11)	( )	( )	21 (20)	10	J/Adet (Q)
		EFH (C15-C20)	( )	134 (49-123)	29 (↓)		
		EFH (C21-C30)	( )	488 (↓)	132 (↓)		
		EFH (C30-C40)	( )	1213 (↓)	176 (20)		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
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			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26533Ag

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?

(Fd)

Compound	Concentration (mg/kg)		%RPD Limit ≤ 50	Qualification Parent only / All Samples
	10	12		
EFH (C30-C40)	0.65	3.1	131	J/A det
EFH (C21-C30)	1.3U	1.5	20U	J/UJ/A

Compound	Concentration ( )		%RPD Limit _____	Qualification Parent only / All Samples

LDC #: 26533T8
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: PJ
2nd Reviewer: C

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	7/12/11	C8 - C40	18866.84	18866.84	19634.26	19634.26	5.6 [2]	5.62
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 #: 36533B5
SDG #: w Conn

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 1:25	8/7/11	cis-C40	575.96	515.31	515.31	10.5	10.5
	CCV 9:03	8/7/11	↓	287.98	276.47	276.47	4.0	4.0
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 #: 26353G

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	
chlorobenzene	NS	1.0	0.679816	68	68	0
or thoterphenyl	↓	1.0	0.907834	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates Results Verification

Page: [illegible]
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: 13 + 14

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 (C_8-C_{11})	0.84	0.84	ND	0.68	0.84	81	81	100	100	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 #: 76533T8
SDG #: all cores

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F2
2nd Reviewer:

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 29216

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)										
EPH (C8-C11)	0.84	NA	0.64	NA	76	76	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 #: 26533TJ
SDG #: 111 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. #1 Compound Name $C_{30} - C_{40}$

Concentration = $\frac{32285969 \quad (1)}{19634.26 \quad (60) \quad (0.986)}$

= 28 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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Explosives

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5

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 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Explosives - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Explosives - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A40 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 7/25/11
II	Initial calibration	A	%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	N	client specified
VII.	Laboratory control samples	A	LCS ID
VIII.	Target compound identification	A	
IX.	Compound quantitation RL/LOQ/LODs	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: 8011

1	SL-190-SA6-SS-0.0-0.5	11	PBLK 152141	21		31	
2	SL-192-SA6-SS-0.0-0.5	12		22		32	
3	SL-193-SA6-SS-0.0-0.5	13		23		33	
4	SL-245-SA6-SS-0.0-0.5	14		24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10		20		30		40	

Notes:

.DC #: 26533A40
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

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?			✓	

.DC #: 26533A40
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 #: 26533A4U
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Y 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 (499.5 / 5002.5 std)	Recalculated CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	6/23/11	Nitrobenzene chrompack	2.17×10^2	2.17×10^2	2.07×10^2	2.07×10^2	4.6	4.6
			2,4,6-TNT	2.04×10^2	2.04×10^2	1.99×10^2	1.99×10^2	3.1	3.1
2			↓ Capcell	1.85×10^2	1.85×10^2	1.78×10^2	1.78×10^2	4.6	4.6
				2.00×10^2	2.00×10^2	1.85×10^2	1.85×10^2	12.2	12.2
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 #: 26533A40
SDG #: pw 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 18:42	8/4/11	Nitrobenzene ~~chrompack~~ capcell	499.50	518.64	518.64	3.8	3.8
			2,4,6-TNT	500.50	549.18	549.18	9.7	9.7
2	CCV 3:11	8/5/11	↓ capcell	999.0	1011.99	1011.99	1.3	1.3
				1001.0	1108.61	1108.61	10.8	10.8
3	CCV 11:40	8/5/11	↓	499.50	509.68	509.68	2.0	2.0
				500.50	543.45	543.45	8.6	8.6
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 #: 26533A4U
SDG #: w Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
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 18:42	8/4/11	Nitrobenzene chrompack	499.50	527.86	527.86	5.7	5.7
			2,4,6-TNT	500.50	514.57	514.57	2.8	2.8
2	CCV 3:11	8/5/11	↓	999.0	1068.47	1068.47	7.0	7.0
			↓	1001.0	1020.31	1020.31	1.9	1.9
3	CCV 11:40	8/5/11	↓	499.50	526.65	526.65	5.4	5.4
			↓	500.50	511.34	511.34	2.2	2.2
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 #: 26S 33710

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	Percent Recovery	Percent Difference
				Reported	Recalculated	
2-Nitro m-xylene	Chrompack	~~1887~~ 1886.6	1986.624	105	105	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 #: 26533A4U
SDG #: pw cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F
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 = | 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/5214

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)	2000	NA	183.59	NA	92	92				
2,4,6-Trinitrotoluene (8330)	1999.2	NA	2237.24	↓	112	112	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 #: 26533A4U
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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Terphenyls

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 14 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 with the following exceptions:

Sample	Surrogate	%R (Limits)	Compound	Flag	A or P
SL-268-SA6-SS-0.0-0.5	n-Triacontane-d62	6 (50-150)	All TCL compounds	J (all detects) R (all non-detects)	P

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No terphenyls were detected in any of the samples.

Santa Susana Field Laboratory
Terphenyls - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-268-SA6-SS-0.0-0.5	All TCL compounds	J (all detects) R (all non-detects)	P	Surrogate spikes (%R) (S)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Terphenyls - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Terphenyls - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A41 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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: 7/25/11
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/~~ICV~~	A	CCV ≤ 20
IV.	Blanks	A	
V	Surrogate recovery	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Target compound identification	A	
IX.	Compound quantitation(RL)/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 10 + 12
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-190-SA6-SS-0.0-0.5	11	SL-289-SA6-SB-3.5-4.5	21	PBLK 30216	31	
2	SL-192-SA6-SS-0.0-0.5	12	DUP07-SA6-QC-072511	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-098-SA6-SB-2.0-3.0MS	23		33	
4	SL-245-SA6-SS-0.0-0.5	14	SL-098-SA6-SB-2.0-3.0MSD	24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10	SL-098-SA6-SB-2.0-3.0	20		30		40	

Notes: _____

DC #: 26533A41
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
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 #: 26533A4 |
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FR
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 #: 26533A4/

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
	9	NS	Z	6 (50-150)	J/R/P (S)
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	
				( )	

	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	Z	n-Triacontane-d62
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 #: 26533A41
SDG #: see cover

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	Recalculated	Reported	Recalculated	Reported	Recalculated
				17.741 CF (std)	17.741 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	7ICAL	7/20/11	o-Terphenyl	2.07 X10^4	2.07X10^4	1.99 x10^4	1.99X10^4	2.5	2.5
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 #: 26533A41
SDG #: w Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: EJ
2nd Reviewer: C

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 7:10	8/6/11	o-Terphenyl	17.74	17.48	17.48	1.5	1.5
	ccv 17:35	8/6/11	↓	17.74	18.81	18.81	6.0	6.0
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 #: [illegible]
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	
n-Triacontane-d62	NS	0.333	0.26558	80	79.7	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FZ
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: 13 + 14

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)											
m-Terphenyl	1.65	1.65	ND	1.29	1.29	78	78	78	78	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 #: 26533A4/
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FO
2nd Reviewer:

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 30216

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	1.65	NA	1.36	NA	82	82	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 #: 26533A41
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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Alcohols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 14 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No alcohols were detected in any of the samples.

Santa Susana Field Laboratory
Alcohols - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Alcohols - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Alcohols - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A43 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: FT
2nd Reviewer:

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: 7/25/11
II	Initial calibration	A	% RSD ≤20
III.	Calibration verification/ICV	A	10%/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(RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 10 + 12
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-190-SA6-SS-0.0-0.5	11	SL-289-SA6-SB-3.5-4.5	21	PBLK42209	31	
2	SL-192-SA6-SS-0.0-0.5	12	DUP07-SA6-QC-072511	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-098-SA6-SB-2.0-3.0MS	23		33	
4	SL-245-SA6-SS-0.0-0.5	14	SL-098-SA6-SB-2.0-3.0MSD	24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10	SL-098-SA6-SB-2.0-3.0	20		30		40	

Notes:

.DC #: 265334A43
SDG #: all 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?			✓	

_DC #: 205334A3
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Reviewer: FJ
2nd Reviewer: C

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 #: 26533A43
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
				5000 CF (std)	5000 CF (std)	Average CF (initial)	Average CF (initial)	%RSD	%RSD
1	ICAL	7/29/11	Methanol RTX-200	8.84×10^{0}	8.84×10^{0}	6.92×10^{0}	6.92×10^{0}	16.2	16.2
			↓ SP-1000	3.25×10^{-1}	3.25×10^{-1}	3.46×10^{-1}	3.46×10^{-1}	14.0	14.0
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 #: 26533A43
SDG #: w Conn

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 0:49	7/30/11	methanol / RIX-MW	10,000	8572.26	8572.26	14.3	14.3
2	CCV 13:29	7/30/11	↓ SP-1000	↓	9386.62	9386.62	6.1	6.1
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 #: [illegible]

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 Reported	Percent Recovery Recalculated	Percent Difference
Acetone	col A	2500	2775.2423	111	111	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 #: ____ VALIDATION FINDINGS WORKSHEET Page: ____

SDG #: [illegible] Matrix Spike/Matrix Spike Duplicates Results Verification Reviewer: [illegible]

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; SA = Spike added; SC = Sample concentration

RPD =(({SSCMS - SSCMSD} * 2) / (SSCMS + SSCMSD))*100 MS = Matrix spike; MSD = Matrix spike duplicate

MS/MSD samples: 13 + 14

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	NO	2263.33	2751.17	91	91	110	110	19	19

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 #: 26533A3

SDG #: see cover

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 42209

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)										
Methanol	2500	NA	2237.14	NA	89	89	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 #: 26533T43
SDG #: all same

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 methanol

Concentration = $\frac{(2823)(5)}{(6.92 \times 10^{0})(10)(0.987)}$

= 206.66 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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Glycols

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-098-SA6-SB-2.0-3.0
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-098-SA6-SB-2.0-3.0MS
SL-098-SA6-SB-2.0-3.0MSD

Introduction

This data review covers 14 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All 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 with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-098-SA6-SB-2.0-3.0MS/MSD (SL-098-SA6-SB-2.0-3.0)	Diethylene glycol	27 (59-109)	26 (59-109)	-	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) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
LCS04208	Ethylene glycol Propylene glycol Diethylene glycol	139 (65-122) 130 (75-125) 143 (75-125)	All samples in SDG DE208	J (all detects)	P

VIII. Target Compound Identification

All target compound identifications were within validation criteria.

IX. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 SL-098-SA6-SB-2.0-3.0 and DUP07-SA6-QC-072511 were identified as field duplicates. No glycols were detected in any of the samples.

Santa Susana Field Laboratory
Glycols - Data Qualification Summary - SDG DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-098-SA6-SB-2.0-3.0	Diethylene glycol	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicate (%R) (Q)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	Ethylene glycol Propylene glycol Diethylene glycol	J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R) (L)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-098-SA6-SB-2.0-3.0 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Glycols - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Glycols - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A45 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 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: 7/25/11
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	SW	LCS
VIII.	Target compound identification	A	
IX.	Compound quantitation/RL/LOQ/LODs	A	
X.	System Performance	A	
XI.	Overall assessment of data	A	
XII.	Field duplicates	ND	D = 10, 12
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-190-SA6-SS-0.0-0.5	11	SL-289-SA6-SB-3.5-4.5	21	PBLK04208	31	
2	SL-192-SA6-SS-0.0-0.5	12	DUP07-SA6-QC-072511	22		32	
3	SL-193-SA6-SS-0.0-0.5	13	SL-098-SA6-SB-2.0-3.0MS	23		33	
4	SL-245-SA6-SS-0.0-0.5	14	SL-098-SA6-SB-2.0-3.0MSD	24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10	SL-098-SA6-SB-2.0-3.0	20		30		40	

Notes:

LDC #: 26533A5
SDG #: per cover

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
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 #: 26533A45
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.			✓	

LDC #: 26533J

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

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?

#	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
	13+14	Diethylene Glycol	27 (59-109)	26 (59-109)	( )	10	J/UJ/A (Q)
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )		

LDC #: 26533A45

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 04208	ethylene glycol	139 (65-123	( )	( )	All	J/Pdet (L)
			( )	( )	( )		
		propylene glycol	130 (75-125	( )	( )	↓	↓
			( )	( )	( )		
		Diethylene glycol	143 (75-125	( )	( )	↓	↓
			( )	( )	( )		
			( )	( )	( )		
			( )	( )	( )	

LDC #: 25533AJ5
SDG #: see cover

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: PJ
2nd Reviewer: C

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

4

#	Standard ID	Calibration Date	Compound	Reported 2/10.7/88 CF (std)	Recalculated 2/10.7/88 CF (std)	Reported Average CF (initial)	Recalculated Average CF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	7/13/11	Propylene glycol	7.60×10^2	7.60×10^2	7.67×10^2	7.67×10^2	2.4	2.4
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.

INICIC 1SB

LDC #: 26533A45
SDG #: w Cover

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 7
Reviewer: EJ
2nd Reviewer: C

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 13:53	7/27/11	Propylene Glycol	105.36	102.95	102.95	2.3	2.3
2	CCV 16:14	7/27/11	↓	↓	103.68	103.68	1.6	1.6
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 #: [illegible]
SDG #: see cover

METHOD: ✓ GC ___ HPLC

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT
2nd reviewer: CA

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	192.5	180.374374	94	94	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 #: [illegible]
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: [illegible]
Reviewer: [illegible]
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: 13 + 14

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	192.77	192.77	ND	126.68	125.23	66	66	65	65	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 #: 26533A5
SDG #: all cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: F
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 = | 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 01208

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	192.77	NA	267.48	NA	139	139	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 #: 26533A5J
SDG #: all cases

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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Formaldehyde

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-190-SA6-SS-0.0-0.5
SL-192-SA6-SS-0.0-0.5
SL-193-SA6-SS-0.0-0.5
SL-245-SA6-SS-0.0-0.5
SL-253-SA6-SS-0.0-0.5
SL-254-SA6-SS-0.0-0.5
SL-255-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-268-SA6-SS-0.0-0.5
SL-190-SA6-SS-0.0-0.5MS
SL-190-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 11 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Formaldehyde - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Formaldehyde - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A71 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/8/11
SDG #: DE208 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: 7/25/11
II	Initial calibration	A	% RSD ≤ 20
III.	Calibration verification/RS	A	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(RL)/LOQ/LODs	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-190-SA6-SS-0.0-0.5	11	PB LK23208	21		31	
2	SL-192-SA6-SS-0.0-0.5	12		22		32	
3	SL-193-SA6-SS-0.0-0.5	13	#1MS	23		33	
4	SL-245-SA6-SS-0.0-0.5	14	#1MSD	24		34	
5	SL-253-SA6-SS-0.0-0.5	15		25		35	
6	SL-254-SA6-SS-0.0-0.5	16		26		36	
7	SL-255-SA6-SS-0.0-0.5	17		27		37	
8	SL-256-SA6-SS-0.0-0.5	18		28		38	
9	SL-268-SA6-SS-0.0-0.5	19		29		39	
10		20		30		40	

Notes: _____

.DC #: 26533A71
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?			✓	

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 #: 26533A71
SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: F7
2nd Reviewer: A

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	IF4210	7/29/11	Formaldehyde	6.18X10'	6.18X10'	6.13X10'	6.13X10'	6.0	6.0
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 #: /
SDG #: lw 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	IF42 10.30R	7/30/11	Formaldehyde	2002.00	1983.45	1983.45	0.9	0.9
	9:32							
2	IF42 1041R1	7/30/11	↓	↓	1970.20	1970.20	1.6	1.6
	4:17							
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 #: 605 5DA71

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	1971	3665.67/2	93	93	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 #: [illegible]

SDG #: [illegible]

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: [illegible]

Reviewer: [illegible]

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: 13+14

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	NR	5179.79	5017.44	103	103	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 #: 26533A71
SDG #: pc cover

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample/Laboratory Control Sample Duplicate Results Verification

Reviewer: FJ
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	4848.65	NA	97	97	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 #: 26533A7J
SDG #: JJJ jones

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: JS
2nd Reviewer: A

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: July 25, 2011

LDC Report Date: November 9, 2011

Matrix: Soil

Parameters: Perchlorate

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DE208

Sample Identification

SL-235-SA6-SS-0.0-0.5
SL-256-SA6-SS-0.0-0.5
SL-289-SA6-SB-3.5-4.5
DUP07-SA6-QC-072511
SL-235-SA6-SS-0.0-0.5MS
SL-235-SA6-SS-0.0-0.5MSD

Introduction

This data review covers 6 soil 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.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. 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.

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 RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DE208	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 DE208

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DE208	SL-235-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-289-SA6-SB-3.5-4.5 DUP07-SA6-QC-072511	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

Santa Susana Field Laboratory
Perchlorate - Laboratory Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

Santa Susana Field Laboratory
Perchlorate - Field Blank Data Qualification Summary - SDG DE208

No Sample Data Qualified in this SDG

LDC #: 26533A87 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/08/11
SDG #: DE208 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer:
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: 7/25/11
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	r2
IV.	Continuing calibration/ICV	A	ICV/CCV ± 15/30 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/RL/LOQ/LODs	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-235-SA6-SS-0.0-0.5	11	PBLK28220	21		31	
2	SL-256-SA6-SS-0.0-0.5	12		22		32	
3	SL-289-SA6-SB-3.5-4.5	13		23		33	
4	DUP07-SA6-QC-072511	14		24		34	
5	#1MS	15		25		35	
6	#1MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

LDC #: 26533A87

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

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 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?	✓			
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?	NA			
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%~~ 15/50 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. Surrogate spikes				
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 #: 26533A87

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?	✓			
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 from 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/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 of data				
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.		✓		

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 # 26533A87
SDG# file copy

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer:
2nd Reviewer:

METHOD: Method 6850

Parameter: perchlorate

Date	Column	Compound	y	x	
08/11/2011	LCMS	perchlorate	0.030428	0.040	
			0.078523	0.100	
			0.175157	0.200	
			0.341583	0.400	
			0.915877	1.000	
			2.494238	2.500	

Regression Output:	Regression Output:	**Reported**	
Constant	-0.03639		
Std Err of Y Est	0.03425		
R Squared	0.99896		0.99673
No. of Observations	6.00000		
Degrees of Freedom	4.00000		
X Coefficient(s)	1.003E+000		

LDC #: 26533A87

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	MS5P222 11010	8/10/11	~~Phenol (1st internal standard)~~ Perchlorate	4	3.79	3.79	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	MS5P222 11021	8/10/11 (LODV	~~Phenol (1st internal standard)~~ Perchlorate	0.4	0.495	0.495	24	24
			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 #: 16353A8 1

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: 5 & 6

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	107	115	107	107	115	115	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 #: 26153218 / VALIDATION FINDINGS WORKSHEET

Page: 1 of 1

Reviewer: FT

2nd Reviewer:

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

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: LCS28220

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	10X	NA	10X	10X	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 #: 26533A87

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer: C

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. = ( )( )( )( )( ) / ( )( )( )( )( )

= ND

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DE209

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Jul-2011	TB-072611	6356773	TB	5030B	8015M	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3050B	6010B	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3050B	6020	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3060A	7199	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3546	1625C	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8015B	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8015M	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8081A	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8082	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8151A	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8270C	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	3550B	8270C SIM	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	8330	8330A	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	300.0	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	314.0	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	7471A	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	8015B	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	8015M	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	8315A	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356764	N	METHOD	9012B	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3050B	6010B	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3050B	6020	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3060A	7199	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3546	1625C	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3550B	8015B	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	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
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3550B	8081A	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3550B	8082	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3550B	8151A	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3550B	8270C	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	3550B	8270C SIM	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	8330	8330A	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	300.0	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	314.0	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	7471A	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	8015B	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	8015M	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	8315A	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356765	N	METHOD	9012B	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3050B	6010B	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3050B	6020	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3060A	7199	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3546	1625C	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8015B	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8015M	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8081A	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8082	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8151A	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8270C	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	3550B	8270C SIM	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	8330	8330A	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	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
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	METHOD	314.0	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	METHOD	7471A	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	METHOD	8015B	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	METHOD	8015M	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	METHOD	8315A	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356766	N	METHOD	9012B	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3050B	6010B	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3050B	6020	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3060A	7199	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3550B	8015B	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3550B	8015M	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3550B	8082	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3550B	8270C	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	3550B	8270C SIM	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	5035	8015M	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	METHOD	300.0	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	METHOD	314.0	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	METHOD	7471A	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	METHOD	8015B	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356770	N	METHOD	8015M	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0DUP	P356770D270330B	DUP	METHOD	314.0	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0DUP	P356770D271723B	DUP	METHOD	300.0	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0MS	P356770R270416B	MS	METHOD	314.0	III
26-Jul-2011	SL-077-SA6-SB-4.0-5.0MS	P356770R271737B	MS	METHOD	300.0	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3050B	6010B	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	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
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3060A	7199	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3550B	8015B	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3550B	8015M	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3550B	8082	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3550B	8270C	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	3550B	8270C SIM	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	5035	8015M	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	METHOD	300.0	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	METHOD	314.0	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	METHOD	7471A	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	METHOD	8015B	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356771	N	METHOD	8015M	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3050B	6010B	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3050B	6020	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3060A	7199	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3546	1625C	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8015B	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8015M	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8081A	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8082	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8151A	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8270C	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	3550B	8270C SIM	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	8330	8330A	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	300.0	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	7471A	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	8015B	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	8015M	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	8315A	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356759	N	METHOD	9012B	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3050B	6010B	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3050B	6020	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3060A	7199	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3546	1625C	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8015B	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8015M	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8081A	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8082	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8151A	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8270C	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	3550B	8270C SIM	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	8330	8330A	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	300.0	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	314.0	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	7471A	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	8015B	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	8015M	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	8315A	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356768	N	METHOD	9012B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3050B	6010B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	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
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3060A	7199	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3550B	8015B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3550B	8015M	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3550B	8082	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3550B	8270C	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	3550B	8270C SIM	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	5035	8015M	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	METHOD	300.0	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	METHOD	314.0	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	METHOD	7471A	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	METHOD	8015B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356772	N	METHOD	8015M	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3005A	6010B	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3020A	6020	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3510C	8015B	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3510C	8015M	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3510C	8081A	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3510C	8082	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3510C	8270C	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3510C	8270C SIM	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	3520C	1625C	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	8330	8330A	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	Gen Prep	300.0	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	Gen Prep	314.0	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	Gen Prep	7199	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	Gen Prep	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	Gen Prep	8015M	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	METHOD	7470A	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	METHOD	8151A	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	METHOD	8315A	III
26-Jul-2011	EB-SA6-SS-072611	6356774	EB	METHOD	9012B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3050B	6010B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3050B	6020	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3060A	7199	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3546	1625C	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8015B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8015M	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8081A	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8082	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8151A	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8270C	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	3550B	8270C SIM	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	8330	8330A	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	300.0	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	314.0	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	7471A	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	8015B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	8015M	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	8315A	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356775	N	METHOD	9012B	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3050B	6010B	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	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
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3060A	7199	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3546	1625C	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8015B	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8015M	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8081A	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8082	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8151A	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8270C	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	3550B	8270C SIM	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	8330	8330A	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	300.0	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	314.0	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	7471A	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	8015B	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	8015M	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	8315A	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356767	N	METHOD	9012B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3050B	6010B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3050B	6020	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3060A	7199	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3546	1625C	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3550B	8015B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3550B	8015M	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3550B	8081A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3550B	8082	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	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
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3550B	8270C	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	3550B	8270C SIM	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	8330	8330A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	300.0	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	314.0	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	7471A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	8015B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	8015M	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	8315A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356760	N	METHOD	9012B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3050B	6010B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3050B	6020	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3060A	7199	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3546	1625C	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8015B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8015M	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8081A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8082	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8151A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8270C	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	3550B	8270C SIM	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	8330	8330A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	METHOD	300.0	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	METHOD	314.0	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	METHOD	7471A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	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
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	METHOD	8015M	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	METHOD	8315A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356761	MS	METHOD	9012B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3050B	6010B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3050B	6020	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3546	1625C	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8015B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8015M	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8081A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8082	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8151A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8270C	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	3550B	8270C SIM	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	8330	8330A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	METHOD	7471A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	METHOD	8015B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	METHOD	8015M	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356762	MSD	METHOD	8315A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	3050B	6010B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	3050B	6020	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	3060A	7199	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	METHOD	300.0	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	METHOD	314.0	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	METHOD	7471A	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5DUP	6356763	DUP	METHOD	9012B	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	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
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3050B	6020	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3060A	7199	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3546	1625C	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8015B	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8015M	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8081A	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8082	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8151A	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8270C	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	3550B	8270C SIM	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	8330	8330A	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	300.0	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	314.0	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	7471A	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	8015B	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	8015M	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	8315A	III
26-Jul-2011	DUP08-SA6-QC-072611	6356769	FD	METHOD	9012B	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3050B	6010B	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3050B	6020	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3060A	7199	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3550B	8081A	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3550B	8082	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3550B	8151A	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	3550B	8270C	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	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
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	METHOD	300.0	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	METHOD	314.0	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356758	N	METHOD	7471A	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3050B	6010B	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3050B	6020	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3060A	7199	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3550B	8081A	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3550B	8082	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3550B	8151A	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3550B	8270C	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	3550B	8270C SIM	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	METHOD	300.0	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	N	METHOD	314.0	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356757	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: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP08-SA6-QC-072611 ***Collected:*** 7/26/2011 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 3:02:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 2:39:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.99	J	0.82	MDL	1.0	PQL	mg/Kg	J	Z, Q

Sample ID: SL-204-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.82	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.82	MDL	1.5	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 12:06:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-206-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-217-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-317-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 10:22:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1		0.80	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 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
BORON	1.66	J	0.356	MDL	4.95	PQL	mg/Kg	U	B
SODIUM	84.5	J	5.89	MDL	98.9	PQL	mg/Kg	J	Z
TIN	2.35	J	0.317	MDL	9.89	PQL	mg/Kg	U	B
Zirconium	2.73	J	0.455	MDL	4.95	PQL	mg/Kg	U	B

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.71	J	0.319	MDL	9.97	PQL	mg/Kg	U	B
Zirconium	1.86	J	0.459	MDL	4.99	PQL	mg/Kg	U	B

Sample ID: SL-013-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 2:39:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	91.9	J	5.89	MDL	99.0	PQL	mg/Kg	J	Z
TIN	2.41	J	0.317	MDL	9.90	PQL	mg/Kg	U	B
Zirconium	2.21	J	0.456	MDL	4.95	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-077-SA6-SB-4.0-5.0 **Collected: 7/26/2011 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
BORON	1.79	J	0.386	MDL	5.36	PQL	mg/Kg	U	B
TIN	2.26	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.41	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA6-SB-9.0-10.0 **Collected: 7/26/2011 9:50:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.10	J	0.415	MDL	5.77	PQL	mg/Kg	J	Z
TIN	2.33	J	0.369	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.55	J	0.531	MDL	5.77	PQL	mg/Kg	J	Z

Sample ID: SL-080-SA6-SB-3.5-4.5 **Collected: 7/26/2011 10:50:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	1.59	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	0.852	J	0.477	MDL	5.18	PQL	mg/Kg	U	B

Sample ID: SL-204-SA6-SS-0.0-0.5 **Collected: 7/26/2011 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	2.04	J	0.350	MDL	4.86	PQL	mg/Kg	U	B
SODIUM	62.1	J	5.78	MDL	97.1	PQL	mg/Kg	J	Z
TIN	1.87	J	0.311	MDL	9.71	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.447	MDL	4.86	PQL	mg/Kg	U	B

Sample ID: SL-205-SA6-SS-0.0-0.5 **Collected: 7/26/2011 12:06:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.58	J	0.370	MDL	5.14	PQL	mg/Kg	U	B
SODIUM	88.4	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	2.37	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.86	J	0.473	MDL	5.14	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-206-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 8:18:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.22	J	0.327	MDL	10.2	PQL	mg/Kg	U	B

Sample ID: SL-213-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 8:38:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	96.1	J	5.98	MDL	101	PQL	mg/Kg	J	Z
TIN	2.16	J	0.322	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-217-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 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
SODIUM	95.5	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.12	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-311-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 11:31:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.45	J	0.351	MDL	4.87	PQL	mg/Kg	U	B
SODIUM	89.4	J	5.79	MDL	97.4	PQL	mg/Kg	J	Z
TIN	2.74	J	0.312	MDL	9.74	PQL	mg/Kg	U	B
Zirconium	2.51	J	0.448	MDL	4.87	PQL	mg/Kg	U	B

Sample ID: SL-317-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 11:50:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.00	J	0.354	MDL	4.92	PQL	mg/Kg	U	B
SODIUM	74.2	J	5.85	MDL	98.4	PQL	mg/Kg	J	Z
TIN	2.64	J	0.315	MDL	9.84	PQL	mg/Kg	U	B
Zirconium	2.63	J	0.452	MDL	4.92	PQL	mg/Kg	U	B

Sample ID: SL-319-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 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
BORON	1.83	J	0.349	MDL	4.85	PQL	mg/Kg	U	B
SODIUM	77.1	J	5.77	MDL	96.9	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-319-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 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
TIN	2.20	J	0.310	MDL	9.69	PQL	mg/Kg	U	B
Zirconium	2.31	J	0.446	MDL	4.85	PQL	mg/Kg	U	B

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

Sample ID: DUP08-SA6-QC-072611 **Collected:** 7/26/2011 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
ANTIMONY	0.102	J	0.0754	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.39		0.0815	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	8.20		0.0104	MDL	0.204	PQL	mg/Kg	J	Q
THALLIUM	0.247		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.4		0.0224	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: DUP08-SA6-QC-072611 **Collected:** 7/26/2011 12:14:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.189	J	0.0591	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 3:02:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	U	0.0768	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.13		0.0830	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	8.45		0.0106	MDL	0.207	PQL	mg/Kg	J	Q
SILVER	0.0515	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
THALLIUM	0.224		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
VANADIUM	27.7		0.0228	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-012-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 3:02:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0894	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-013-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 2:39:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0719	U	0.0719	MDL	0.194	PQL	mg/Kg	UJ	Q
ARSENIC	3.98		0.0777	MDL	0.389	PQL	mg/Kg	J	Q
LEAD	17.6		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
SILVER	0.0497	J	0.0138	MDL	0.0971	PQL	mg/Kg	J	Z
THALLIUM	0.214		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	31.9		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-013-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 2:39:00 **Analysis Type:** REA6 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0959	J	0.0563	MDL	0.389	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA6-SB-4.0-5.0 **Collected:** 7/26/2011 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
ANTIMONY	0.0802	U	0.0802	MDL	0.217	PQL	mg/Kg	UJ	Q
ARSENIC	3.95		0.0867	MDL	0.433	PQL	mg/Kg	J	Q
LEAD	4.88		0.0110	MDL	0.217	PQL	mg/Kg	J	Q
SILVER	0.0176	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z
THALLIUM	0.160		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	30.9		0.0238	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA6-SB-4.0-5.0 **Collected:** 7/26/2011 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
SELENIUM	0.0765	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA6-SB-9.0-10.0 **Collected:** 7/26/2011 9:50:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0869	J	0.0821	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	5.21		0.0887	MDL	0.444	PQL	mg/Kg	J	Q
LEAD	8.22		0.0113	MDL	0.222	PQL	mg/Kg	J	Q
SILVER	0.0254	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
THALLIUM	0.278		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-077-SA6-SB-9.0-10.0 *Collected:* 7/26/2011 9:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	50.5		0.0244	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA6-SB-9.0-10.0 *Collected:* 7/26/2011 9:50:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.169	J	0.0643	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-080-SA6-SB-3.5-4.5 *Collected:* 7/26/2011 10:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0775	U	0.0775	MDL	0.209	PQL	mg/Kg	UJ	Q
ARSENIC	1.53		0.0838	MDL	0.419	PQL	mg/Kg	J	Q
CADMIUM	0.0466	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z
LEAD	2.55		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
SILVER	0.0149	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
THALLIUM	0.104	J	0.0314	MDL	0.105	PQL	mg/Kg	J	Z, Q
VANADIUM	35.5		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-204-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 10:00:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0719	MDL	0.194	PQL	mg/Kg	J	Z, Q
ARSENIC	3.77		0.0777	MDL	0.389	PQL	mg/Kg	J	Q
LEAD	12.7		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
THALLIUM	0.213		0.0291	MDL	0.0971	PQL	mg/Kg	J	Q
VANADIUM	31.5		0.0214	MDL	0.0971	PQL	mg/Kg	J	Q

Sample ID: SL-204-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
SELENIUM	0.125	J	0.0563	MDL	0.389	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-205-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 12:06:00 ***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	0.0738	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	4.19		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	7.20		0.0102	MDL	0.200	PQL	mg/Kg	J	Q
THALLIUM	0.265		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
VANADIUM	34.3		0.0220	MDL	0.0998	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 12:06:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.189	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:18:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0749	MDL	0.202	PQL	mg/Kg	J	Z, Q
ARSENIC	6.03		0.0810	MDL	0.405	PQL	mg/Kg	J	Q
LEAD	11.4		0.0103	MDL	0.202	PQL	mg/Kg	J	Q
SILVER	0.0421	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z
THALLIUM	0.342		0.0304	MDL	0.101	PQL	mg/Kg	J	Q
VANADIUM	57.4		0.0223	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-206-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:18:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.155	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.112	J	0.0774	MDL	0.209	PQL	mg/Kg	J	Z, Q
ARSENIC	5.84		0.0837	MDL	0.418	PQL	mg/Kg	J	Q
LEAD	10.5		0.0107	MDL	0.209	PQL	mg/Kg	J	Q
SILVER	0.0469	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
THALLIUM	0.330		0.0314	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	60.3		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.139	J	0.0607	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 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
ANTIMONY	0.205	J	0.0778	MDL	0.210	PQL	mg/Kg	J	Z, Q
ARSENIC	6.38		0.0841	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	11.0		0.0107	MDL	0.210	PQL	mg/Kg	J	Q
SILVER	0.0611	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
THALLIUM	0.367		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	62.0		0.0231	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-217-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 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
SELENIUM	0.191	J	0.0610	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:31:00 ***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	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q
ARSENIC	4.12		0.0794	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	26.1		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
THALLIUM	0.174		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q
VANADIUM	25.5		0.0218	MDL	0.0993	PQL	mg/Kg	J	Q

Sample ID: SL-311-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:31:00 ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-317-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-317-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:50:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	3.56		0.0795	MDL	0.397	PQL	mg/Kg	J	Q
LEAD	15.9		0.0101	MDL	0.199	PQL	mg/Kg	J	Q
THALLIUM	0.252		0.0298	MDL	0.0993	PQL	mg/Kg	J	Q
VANADIUM	28.4		0.0219	MDL	0.0993	PQL	mg/Kg	J	Q

Sample ID: SL-317-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:50:00 *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.165	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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	0.490		0.0717	MDL	0.194	PQL	mg/Kg	J	Q
ARSENIC	4.02		0.0776	MDL	0.388	PQL	mg/Kg	J	Q
LEAD	32.5		0.0099	MDL	0.194	PQL	mg/Kg	J	Q
THALLIUM	0.170		0.0291	MDL	0.0969	PQL	mg/Kg	J	Q
VANADIUM	28.9		0.0213	MDL	0.0969	PQL	mg/Kg	J	Q

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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	0.0855	J	0.0562	MDL	0.388	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-013-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 2:39:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA6-SB-4.0-5.0 ***Collected:*** 7/26/2011 9:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-204-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 9:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-311-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:31:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.96	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000043	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 12:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0186	J	0.0067	MDL	0.0952	PQL	mg/Kg	U	F

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0327	J	0.0070	MDL	0.0991	PQL	mg/Kg	U	F

Sample ID: SL-013-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 2:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0341	J	0.0070	MDL	0.0997	PQL	mg/Kg	U	F

Sample ID: SL-077-SA6-SB-4.0-5.0 *Collected:* 7/26/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0074	MDL	0.106	PQL	mg/Kg	U	F

Sample ID: SL-080-SA6-SB-3.5-4.5 *Collected:* 7/26/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0291	J	0.0071	MDL	0.100	PQL	mg/Kg	U	F

Sample ID: SL-204-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0198	J	0.0070	MDL	0.100	PQL	mg/Kg	U	F

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: **SL-205-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 12:06:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0069	MDL	0.0977	PQL	mg/Kg	U	F

Sample ID: **SL-206-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 8:18:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0071	MDL	0.101	PQL	mg/Kg	U	B, F

Sample ID: **SL-213-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 8:38:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0098	J	0.0070	MDL	0.0993	PQL	mg/Kg	U	B, F

Sample ID: **SL-217-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 9:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0088	J	0.0072	MDL	0.103	PQL	mg/Kg	U	B, F

Sample ID: **SL-311-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 11:31:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0835	J	0.0067	MDL	0.0951	PQL	mg/Kg	J	Z

Sample ID: **SL-317-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 11:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0157	J	0.0068	MDL	0.0972	PQL	mg/Kg	U	B, F

Sample ID: **SL-319-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 10:22:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0610	J	0.0067	MDL	0.0950	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA
Method: 1625C **Matrix: AQ**

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.56		0.498	MDL	0.996	PQL	ng/L	J	S

Method Category: SVOA
Method: 1625C **Matrix: SO**

Sample ID: SL-317-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	18.5	J	16.7	MDL	33.4	PQL	ng/Kg	J	Z

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

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 12:14:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.3	J	0.82	MDL	2.5	PQL	mg/Kg	J	Z

Sample ID: SL-077-SA6-SB-9.0-10.0 *Collected:* 7/26/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.94	J	0.92	MDL	2.8	PQL	mg/Kg	J	Z

Sample ID: SL-080-SA6-SB-3.5-4.5 *Collected:* 7/26/2011 10:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	S
EFH (C15-C20)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	S
EFH (C21-C30)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	S
EFH (C30-C40)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	S
EFH (C8-C11)	0.42	U	0.42	MDL	1.3	PQL	mg/Kg	UJ	S

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-204-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 10:00:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.90	J	0.40	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 12:06:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.1	U	5.1	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-205-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 12:06:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.82	U	0.82	MDL	2.5	PQL	mg/Kg	R	Q
EFH (C15-C20)	1.2	J	0.82	MDL	2.5	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.82	U	0.82	MDL	2.5	PQL	mg/Kg	R	Q

Sample ID: SL-213-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 8:38:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.89	J	0.84	MDL	2.5	PQL	mg/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 9:00:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.65	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-317-SA6-SS-0.0-0.5 **Collected:** 7/26/2011 11:50:00 **Analysis Type:** REA2 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.73	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: AQ**

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR	0.0074	J	0.0026	MDL	0.0098	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 12:14:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	46		1.4	MDL	7.0	PQL	ug/Kg	J	FD

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN II	0.25	J	0.068	MDL	0.35	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.047	J	0.035	MDL	0.17	PQL	ug/Kg	J	Z, S

Sample ID: SL-013-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 2:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	2.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.22	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
gamma-BHC (Lindane)	0.050	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.040	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 12:06:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	28	U	28	MDL	28	PQL	ug/Kg	UJ	FD

Sample ID: SL-205-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 12:06:00 *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	0.068	U	0.068	MDL	0.35	PQL	ug/Kg	R	Q
ENDOSULFAN I	0.045	U	0.045	MDL	0.17	PQL	ug/Kg	R	Q
ENDOSULFAN SULFATE	0.31	U	0.31	MDL	0.35	PQL	ug/Kg	R	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-206-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:18:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	1.6	J	0.84	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***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	0.18	J	0.069	MDL	0.36	PQL	ug/Kg	J	Z

Sample ID: SL-317-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.19	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z
HEPTACHLOR EPOXIDE	0.073	J	0.034	MDL	0.17	PQL	ug/Kg	J	Z

Sample ID: SL-319-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 10:22:00 ***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	7.9		0.33	MDL	1.7	PQL	ug/Kg	J	H

Sample ID: SL-319-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 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
4,4'-DDD	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
4,4'-DDE	0.48	U	0.48	MDL	0.48	PQL	ug/Kg	UJ	H
ALDRIN	0.067	U	0.067	MDL	0.17	PQL	ug/Kg	UJ	H
ALPHA-BHC	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	H
BETA-BHC	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	H
Chlordane	0.81	U	0.81	MDL	3.4	PQL	ug/Kg	UJ	H
DELTA-BHC	0.14	U	0.14	MDL	0.17	PQL	ug/Kg	UJ	H
DIELDRIN	0.25	U	0.25	MDL	0.34	PQL	ug/Kg	UJ	H
ENDOSULFAN I	0.044	U	0.044	MDL	0.17	PQL	ug/Kg	UJ	H
ENDOSULFAN II	0.26	U	0.26	MDL	0.34	PQL	ug/Kg	UJ	H
ENDOSULFAN SULFATE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H
ENDRIN	0.32	U	0.32	MDL	0.34	PQL	ug/Kg	UJ	H
ENDRIN ALDEHYDE	0.83	U	0.83	MDL	0.83	PQL	ug/Kg	UJ	H
ENDRIN KETONE	0.067	U	0.067	MDL	0.34	PQL	ug/Kg	UJ	H

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8081A **Matrix: SO**

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
gamma-BHC (Lindane)	0.034	U	0.034	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR	0.060	U	0.060	MDL	0.17	PQL	ug/Kg	UJ	H
HEPTACHLOR EPOXIDE	0.11	U	0.11	MDL	0.17	PQL	ug/Kg	UJ	H
METHOXYCHLOR	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	H
MIREX	0.40	U	0.40	MDL	0.40	PQL	ug/Kg	UJ	H
TOXAPHENE	2.2	U	2.2	MDL	6.7	PQL	ug/Kg	UJ	H

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 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 1254	18		0.34	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 12:06:00 *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	67		1.7	MDL	8.7	PQL	ug/Kg	J	FD

Sample ID: SL-213-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 8:38:00 *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	0.72	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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 1254	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
AROCLOR 1016	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
AROCLOR 1221	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
AROCLOR 1232	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
AROCLOR 1242	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
AROCLOR 1248	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
AROCLOR 1254	15		0.33	MDL	1.7	PQL	ug/Kg	J	H
AROCLOR 1260	24		0.39	MDL	1.7	PQL	ug/Kg	J	H
Aroclor 1262	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
Aroclor 1268	0.33	U	0.33	MDL	1.7	PQL	ug/Kg	UJ	H
Aroclor 5432	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	H
Aroclor 5442	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	H
Aroclor 5460	18		1.0	MDL	3.3	PQL	ug/Kg	J	H

Method Category: SVOA **Method:** 8151A **Matrix:** AQ

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* DL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	1.6		0.16	MDL	0.52	PQL	ug/L	UJ	L, B

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	4.8		0.17	MDL	0.52	PQL	ug/L	U	B

Method Category: SVOA **Method:** 8151A **Matrix:** SO

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 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
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-012-SA6-SS-0.0-0.5 **Collected: 7/26/2011 3:02:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L
MCPA	140	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA6-SS-0.0-0.5 **Collected: 7/26/2011 2:39:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.94	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-204-SA6-SS-0.0-0.5 **Collected: 7/26/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-205-SA6-SS-0.0-0.5 **Collected: 7/26/2011 12:06:00** **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	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-206-SA6-SS-0.0-0.5 **Collected: 7/26/2011 8:18:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	0.98	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

Sample ID: SL-213-SA6-SS-0.0-0.5 **Collected: 7/26/2011 8:38:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.12	J	0.078	MDL	0.18	PQL	ug/Kg	J	Z
DINOSEB	0.83	U	0.83	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-217-SA6-SS-0.0-0.5 **Collected: 7/26/2011 9:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.079	J	0.078	MDL	0.18	PQL	ug/Kg	J	Z
2,4-DB	0.72	J	0.65	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: SL-217-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
DINOSEB	0.84	U	0.84	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-311-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.084	U	0.084	MDL	0.17	PQL	ug/Kg	UJ	S
2,4,5-TP (Silvex)	0.11	J	0.077	MDL	0.17	PQL	ug/Kg	J	Z, S
2,4-D	1.2	U	1.2	MDL	3.7	PQL	ug/Kg	UJ	S
2,4-DB	14		0.63	MDL	1.7	PQL	ug/Kg	J	S
DALAPON	4.5	U	4.5	MDL	9.2	PQL	ug/Kg	UJ	S
DICAMBA	0.41	U	0.41	MDL	1.2	PQL	ug/Kg	UJ	S
DICHLOROPROP	0.82	U	0.82	MDL	1.7	PQL	ug/Kg	UJ	S
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L
MCPA	390	U	390	MDL	390	PQL	ug/Kg	UJ	S
MCPP	77	U	77	MDL	260	PQL	ug/Kg	UJ	S

Sample ID: SL-317-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **DUP08-SA6-QC-072611** *Collected:* **7/26/2011 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
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	17	MDL	340	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-012-SA6-SS-0.0-0.5** *Collected:* **7/26/2011 3:02:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-013-SA6-SS-0.0-0.5** *Collected:* **7/26/2011 2:39:00** *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(G,H,I)PERYLENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	42	J	17	MDL	340	PQL	ug/Kg	J	Z
PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-077-SA6-SB-9.0-10.0** *Collected:* **7/26/2011 9:50:00** *Analysis Type:* **RES-BASE/NEUTRAL** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	33	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	31	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	29	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: **SL-205-SA6-SS-0.0-0.5** *Collected:* **7/26/2011 12:06:00** *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	3400	PQL	ug/Kg	R	Q
BENZO(B)FLUORANTHENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	45	J	17	MDL	340	PQL	ug/Kg	J	Z, FD
CHRYSENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-206-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 8:18:00** ***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	91	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: **SL-217-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 9:00:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	41	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: **SL-311-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 11:31:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	26	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	42	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	21	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	60	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-317-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 11:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: **SL-319-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 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
BENZO(A)ANTHRACENE	63	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	36	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	70	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	100	J	17	MDL	170	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-319-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 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
INDENO(1,2,3-CD)PYRENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	33	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB-SA6-SS-072611 *Collected:* 7/26/2011 11:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Dimethylphthalate	0.049	U	0.049	MDL	0.98	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.14	J	0.049	MDL	0.98	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: DUP08-SA6-QC-072611 *Collected:* 7/26/2011 12:14:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	5.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PHENANTHRENE	3.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 3:02:00 *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	4.6	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.1	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-013-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 2:39:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	6.0	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
CHRYSENE	5.0	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
FLUORANTHENE	6.8	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-077-SA6-SB-4.0-5.0 ***Collected:*** 7/26/2011 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	0.78	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
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.84	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.86	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 10:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.1	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.3	J	6.1	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.3	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	16	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.89	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 12:06:00 ***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	6.0	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	4.4	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-206-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:18:00 ***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	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-octylphthalate	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.70	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***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	0.70	MDL	1.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory:** LL

EDD Filename: PrepDE209_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-213-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 8:38:00 ***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	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	0.91	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.72	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 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
CHRYSENE	0.45	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.72	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-311-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:31:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.3	J	1.7	MDL	8.5	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	3.7	J	3.4	MDL	8.5	PQL	ug/Kg	J	Z

Sample ID: SL-317-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 11:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.42	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	1.2	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.1	MDL	18	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-319-SA6-SS-0.0-0.5 ***Collected:*** 7/26/2011 10:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.1	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.6	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.0	MDL	18	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.0	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.1	J	6.0	MDL	18	PQL	ug/Kg	J	Z
Di-n-octylphthalate	11	J	6.0	MDL	18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

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

Sample ID: **SL-205-SA6-SS-0.0-0.5** ***Collected:*** **7/26/2011 12:06:00** ***Analysis Type:*** **REA3** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: PrepDE209_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE209

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE209
EDD Filename: PrepDE209_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 8081A **Preparation Method: 3510C**
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
SL-319-SA6-SS-0.0-0.5 (RES)	Sampling To Extraction	20.00	14.00	DAYS	J (all detects)
SL-319-SA6-SS-0.0-0.5 (DL)		20.00	14.00	DAYS	UJ (all non-detects)

Method: 8082 **Preparation Method: 3510C**
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
SL-319-SA6-SS-0.0-0.5 (RES)	Sampling To Extraction	20.00	14.00	DAYS	J (all detects) UJ (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P20848AB221837	7/28/2011 6:37:00 PM	BORON STRONTIUM Zirconium	0.0029 mg/L 0.00029 mg/L 0.0059 mg/L	EB-SA6-SS-072611

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21308DB220929	8/3/2011 9:29:00 AM	BORON CALCIUM IRON PHOSPHORUS STRONTIUM TIN Zirconium	0.529 mg/Kg 6.80 mg/Kg 3.81 mg/Kg 1.36 mg/Kg 0.0356 mg/Kg 1.68 mg/Kg 0.616 mg/Kg	DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP08-SA6-QC-072611(REA)	BORON	1.66 mg/Kg	1.66U mg/Kg
DUP08-SA6-QC-072611(REA)	TIN	2.35 mg/Kg	2.35U mg/Kg
DUP08-SA6-QC-072611(REA)	Zirconium	2.73 mg/Kg	2.73U mg/Kg
SL-012-SA6-SS-0.0-0.5(REA)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-012-SA6-SS-0.0-0.5(REA)	Zirconium	1.86 mg/Kg	1.86U mg/Kg
SL-013-SA6-SS-0.0-0.5(REA)	TIN	2.41 mg/Kg	2.41U mg/Kg
SL-013-SA6-SS-0.0-0.5(REA)	Zirconium	2.21 mg/Kg	2.21U mg/Kg
SL-077-SA6-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-077-SA6-SB-4.0-5.0(REA)	TIN	2.26 mg/Kg	2.26U mg/Kg
SL-077-SA6-SB-9.0-10.0(REA)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-080-SA6-SB-3.5-4.5(REA)	TIN	1.59 mg/Kg	1.59U mg/Kg
SL-080-SA6-SB-3.5-4.5(REA)	Zirconium	0.852 mg/Kg	0.852U mg/Kg
SL-204-SA6-SS-0.0-0.5(REA)	BORON	2.04 mg/Kg	2.04U mg/Kg
SL-204-SA6-SS-0.0-0.5(REA)	TIN	1.87 mg/Kg	1.87U mg/Kg
SL-204-SA6-SS-0.0-0.5(REA)	Zirconium	2.69 mg/Kg	2.69U mg/Kg
SL-205-SA6-SS-0.0-0.5(REA)	BORON	2.58 mg/Kg	2.58U mg/Kg
SL-205-SA6-SS-0.0-0.5(REA)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-205-SA6-SS-0.0-0.5(REA)	Zirconium	2.86 mg/Kg	2.86U mg/Kg
SL-206-SA6-SS-0.0-0.5(REA)	TIN	2.22 mg/Kg	2.22U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_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-213-SA6-SS-0.0-0.5(REA)	TIN	2.16 mg/Kg	2.16U mg/Kg
SL-217-SA6-SS-0.0-0.5(REA)	TIN	2.12 mg/Kg	2.12U mg/Kg
SL-311-SA6-SS-0.0-0.5(REA)	BORON	2.45 mg/Kg	2.45U mg/Kg
SL-311-SA6-SS-0.0-0.5(REA)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-311-SA6-SS-0.0-0.5(REA)	Zirconium	2.51 mg/Kg	2.51U mg/Kg
SL-317-SA6-SS-0.0-0.5(REA)	BORON	1.00 mg/Kg	1.00U mg/Kg
SL-317-SA6-SS-0.0-0.5(REA)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-317-SA6-SS-0.0-0.5(REA)	Zirconium	2.63 mg/Kg	2.63U mg/Kg
SL-319-SA6-SS-0.0-0.5(REA)	BORON	1.83 mg/Kg	1.83U mg/Kg
SL-319-SA6-SS-0.0-0.5(REA)	TIN	2.20 mg/Kg	2.20U mg/Kg
SL-319-SA6-SS-0.0-0.5(REA)	Zirconium	2.31 mg/Kg	2.31U mg/Kg

Method: **7470A**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21013CB220815	8/1/2011 8:15:00 AM	MERCURY	0.00011 mg/L	EB-SA6-SS-072611

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-072611(RES)	MERCURY	0.000043 mg/L	0.000043U mg/L

Method: **8015M**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18185AB320448A	8/9/2011 4:48:00 AM	EFH (C30-C40)	0.41 mg/Kg	DUP08-SA6-QC-072611 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8151A**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P11115AB241015A	8/11/2011 10:15:00 AM	2,4,5-T 2,4-D	23 ug/L 84 ug/L	EB-SA6-SS-072611

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-072611(DL)	2,4,5-T	1.6 ug/L	1.6U ug/L
EB-SA6-SS-072611(RES)	2,4-D	4.8 ug/L	4.8U ug/L

Method: **8315A**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P08085AB240403A	7/28/2011 4:03:00 AM	FORMALDEHYDE	19 ug/L	EB-SA6-SS-072611

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	15 50	16 54	63.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	AROCLOR 1260	213	340	39.00-149.00	-	AROCLOR 1242 AROCLOR 1248 AROCLOR 1254 AROCLOR 1260	No Qual, Diluted Out

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	4,4'-DDE 4,4'-DDT DIELDRIN ENDOSULFAN II ENDRIN ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE	1995 5887 1418 449 488 627 758	2282 7325 1732 1062 655 252 985	18.00-161.00 10.00-176.00 19.00-154.00 28.00-154.00 11.00-149.00 10.00-148.00 13.00-157.00	- - - 81 (50.00) - 86 (35.00) -	4,4'-DDE 4,4'-DDT DIELDRIN ENDOSULFAN II ENDRIN ENDRIN ALDEHYDE HEPTACHLOR EPOXIDE	J(all detects)
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	4,4'-DDD ENDOSULFAN I ENDOSULFAN SULFATE	0 0 0	0 0 0	16.00-163.00 16.00-137.00 21.00-160.00	- - -	4,4'-DDD ENDOSULFAN I ENDOSULFAN SULFATE	J(all detects) R(all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	m-Terphenyl p-Terphenyl	68 72	73 73	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	291 256	333 1383	49.00-123.00 49.00-123.00	- 42 (20.00)	EFH (C21-C30) EFH (C30-C40)	No Qual, >4x

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C8-C11)	- 0	0 0	49.00-123.00 49.00-123.00	200 (20.00) -	EFH (C12-C14) EFH (C8-C11)	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-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex)	-	-	24.00-141.00	41 (35.00)	2,4,5-TP (Silvex)	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-205-SA6-SS-0.0-0.5MS (DUP08 -SA6-QC-072611 SL -012-SA6-SS-0.0-0.5 SL -013-SA6-SS-0.0-0.5 SL -077-SA6-SB-4.0-5.0 SL -077-SA6-SB-9.0-10.0 SL -080-SA6-SB-3.5-4.5 SL -204-SA6-SS-0.0-0.5 SL -205-SA6-SS-0.0-0.5 SL -206-SA6-SS-0.0-0.5 SL -213-SA6-SS-0.0-0.5 SL -217-SA6-SS-0.0-0.5 SL -311-SA6-SS-0.0-0.5 SL -317-SA6-SS-0.0-0.5 SL -319-SA6-SS-0.0-0.5)	ARSENIC VANADIUM ZINC	133 137 146	- - -	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ARSENIC VANADIUM ZINC	J(all detects) Zn No Qual >4x
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (DUP08 -SA6-QC-072611 SL -012-SA6-SS-0.0-0.5 SL -013-SA6-SS-0.0-0.5 SL -077-SA6-SB-4.0-5.0 SL -077-SA6-SB-9.0-10.0 SL -080-SA6-SB-3.5-4.5 SL -204-SA6-SS-0.0-0.5 SL -205-SA6-SS-0.0-0.5 SL -206-SA6-SS-0.0-0.5 SL -213-SA6-SS-0.0-0.5 SL -217-SA6-SS-0.0-0.5 SL -311-SA6-SS-0.0-0.5 SL -317-SA6-SS-0.0-0.5 SL -319-SA6-SS-0.0-0.5)	ANTIMONY	26	26	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) Post Spike = 95%

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209

EDD Filename: DE209_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA6-SS-0.0-0.5MSD (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	LEAD THALLIUM	- -	67 73	75.00-125.00 75.00-125.00	- -	LEAD THALLIUM	J(all detects) UJ(all non-detects)
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	BARIUM	153	126	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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM TITANIUM	1373 202 195 175	1370 169 - 153	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM CALCIUM MAGNESIUM TITANIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	IRON	410	-420	75.00-125.00	-	IRON	No Qual, >4x
SL-205-SA6-SS-0.0-0.5MSD (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	MANGANESE	-	58	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA6-SS-0.0-0.5MS (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	FLUORIDE	40	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_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-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT Di-n-butylphthalate Di-n-octylphthalate	- - 232	266 166 238	39.00-167.00 65.00-148.00 40.00-192.00	59 (30.00) - -	BIS(2-ETHYLHEXYL)PHTHALA Di-n-butylphthalate Di-n-octylphthalate	No Qual, Diluted Out
SL-205-SA6-SS-0.0-0.5MS SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE CHRYSENE	- 65	31 -	33.00-141.00 67.00-134.00	- -	BENZO(G,H,I)PERYLENE CHRYSENE	No Qual, Diluted Out

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-205-SA6-SS-0.0-0.5DUP (DUP08-SA6-QC-072611	ANTIMONY	30	20.00	
	SILVER	32	20.00	
SL -012-SA6-SS-0.0-0.5				
SL -013-SA6-SS-0.0-0.5				
SL -077-SA6-SB-4.0-5.0				
SL -077-SA6-SB-9.0-10.0				
SL -080-SA6-SB-3.5-4.5				
SL -204-SA6-SS-0.0-0.5				No Qual, OK by Difference
SL -205-SA6-SS-0.0-0.5				
SL -206-SA6-SS-0.0-0.5				
SL -213-SA6-SS-0.0-0.5				
SL -217-SA6-SS-0.0-0.5				
SL -311-SA6-SS-0.0-0.5				
SL -317-SA6-SS-0.0-0.5				
SL -319-SA6-SS-0.0-0.5)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-205-SA6-SS-0.0-0.5DUP (DUP08-SA6-QC-072611	HEXAVALENT CHROMIUM	200	20.00	
SL -012-SA6-SS-0.0-0.5				
SL -013-SA6-SS-0.0-0.5				
SL -077-SA6-SB-4.0-5.0				
SL -077-SA6-SB-9.0-10.0				
SL -080-SA6-SB-3.5-4.5				
SL -204-SA6-SS-0.0-0.5				No Qual, OK by Difference
SL -205-SA6-SS-0.0-0.5				
SL -206-SA6-SS-0.0-0.5				
SL -213-SA6-SS-0.0-0.5				
SL -217-SA6-SS-0.0-0.5				
SL -311-SA6-SS-0.0-0.5				
SL -317-SA6-SS-0.0-0.5				
SL -319-SA6-SS-0.0-0.5)				

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-205-SA6-SS-0.0-0.5DUP (DUP08-SA6-QC-072611 SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-311-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5)	MERCURY	30	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-077-SA6-SB-4.0-5.0DUP (SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-311-SA6-SS-0.0-0.5)	FLUORIDE Nitrate-NO3	23 21	20.00 20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209
EDD Filename: DE209_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12106AQ242049A P12106AY242131A (EB-SA6-SS-072611)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 133	- 110 133	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 8151A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12115AQ241456A P12115AY241523A (EB-SA6-SS-072611)	2,4,5-T DALAPON	196 -	180 105	63.00-147.00 40.00-100.00	- -	2,4,5-T DALAPON	J(all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSQ262148 (EB-SA6-SS-072611)	ACENAPHTHENE FLUORENE	116 116	- -	74.00-109.00 75.00-114.00	- -	ACENAPHTHENE FLUORENE	J(all detects)
P0WALCSQ262148 P0WALCSY262221 (EB-SA6-SS-072611)	Dimethylphthalate	26	30	40.00-119.00	-	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSQ260445 P0WBLCSY260510 (EB-SA6-SS-072611)	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLETH	113 -	- 120	79.00-107.00 75.00-115.00	- -	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLET	J(all detects)
P0WBLCSY260510 (EB-SA6-SS-072611)	BENZOIC ACID	-	-	10.00-69.00	33 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_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
P12209AQ240445A (DUP08 -SA6-QC-072611 SL -012-SA6-SS-0.0-0.5 SL -013-SA6-SS-0.0-0.5 SL -204-SA6-SS-0.0-0.5 SL -205-SA6-SS-0.0-0.5 SL -206-SA6-SS-0.0-0.5 SL -213-SA6-SS-0.0-0.5 SL -217-SA6-SS-0.0-0.5 SL -311-SA6-SS-0.0-0.5 SL -317-SA6-SS-0.0-0.5 SL -319-SA6-SS-0.0-0.5)	DINOSEB	8	-	10.00-36.00	-	DINOSEB	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21326CQ222239A (DUP08 -SA6-QC-072611 SL -012-SA6-SS-0.0-0.5 SL -013-SA6-SS-0.0-0.5 SL -077-SA6-SB-4.0-5.0 SL -077-SA6-SB-9.0-10.0 SL -080-SA6-SB-3.5-4.5 SL -204-SA6-SS-0.0-0.5 SL -205-SA6-SS-0.0-0.5 SL -206-SA6-SS-0.0-0.5 SL -213-SA6-SS-0.0-0.5 SL -217-SA6-SS-0.0-0.5 SL -311-SA6-SS-0.0-0.5 SL -317-SA6-SS-0.0-0.5 SL -319-SA6-SS-0.0-0.5)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21308DQ220933 (DUP08 -SA6-QC-072611 SL -012-SA6-SS-0.0-0.5 SL -013-SA6-SS-0.0-0.5 SL -077-SA6-SB-4.0-5.0 SL -077-SA6-SB-9.0-10.0 SL -080-SA6-SB-3.5-4.5 SL -204-SA6-SS-0.0-0.5 SL -205-SA6-SS-0.0-0.5 SL -206-SA6-SS-0.0-0.5 SL -213-SA6-SS-0.0-0.5 SL -217-SA6-SS-0.0-0.5 SL -311-SA6-SS-0.0-0.5 SL -317-SA6-SS-0.0-0.5 SL -319-SA6-SS-0.0-0.5)	ALUMINUM TITANIUM	131 158	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SS-072611	N-Nitrosodimethylamine-d6	174	50.00-150.00	All Target Analytes	J (all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-311-SA6-SS-0.0 -0.5	n-Triacontane-d62	188	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015M
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-080-SA6-SB-3.5 -4.5	CHLOROBENZENE	32	37.00-125.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-012-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	174	20.00-120.00	All Target Analytes	J(all detects)
SL-311-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	151	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-319-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	157	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-311-SA6-SS-0.0 -0.5	TETRACHLORO-M-XYLENE	7	53.00-139.00	All Target Analytes	No Qual, Diluted Out
SL-311-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	10	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
SL-311-SA6-SS-0.0 -0.5	2,4-Dichlorophenylacetic acid	11	36.00-156.00	All Target Analytes	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
MOISTURE	2.7	2.8	4		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
FLUORIDE	2.1	2.2	5	50.00	No Qualifiers Applied
Nitrate-NO3	4.2	4.0	5	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
ALUMINUM	18100	17500	3	50.00	No Qualifiers Applied
BORON	2.58	1.66	43	50.00	
CALCIUM	2410	2470	2	50.00	
IRON	19900	20100	1	50.00	
LITHIUM	23.2	23.3	0	50.00	
MAGNESIUM	4160	4290	3	50.00	
MANGANESE	223	223	0	50.00	
PHOSPHORUS	294	317	8	50.00	
POTASSIUM	2750	3020	9	50.00	
SODIUM	88.4	84.5	5	50.00	
STRONTIUM	21.7	21.7	0	50.00	
TIN	2.37	2.35	1	50.00	
TITANIUM	1010	1000	1	50.00	
Zirconium	2.86	2.73	5	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
ANTIMONY	0.108	0.102	6	50.00	No Qualifiers Applied
ARSENIC	4.19	4.39	5	50.00	
BARIUM	99.4	103	4	50.00	
BERYLLIUM	0.598	0.606	1	50.00	
CADMIUM	0.272	0.376	32	50.00	
CHROMIUM	16.3	17.5	7	50.00	
COBALT	5.27	5.43	3	50.00	
COPPER	7.36	8.56	15	50.00	
LEAD	7.20	8.20	13	50.00	
MOLYBDENUM	0.537	0.609	13	50.00	
NICKEL	11.5	12.5	8	50.00	
SELENIUM	0.189	0.189	0	50.00	
SILVER	0.123	0.106	15	50.00	
THALLIUM	0.265	0.247	7	50.00	
VANADIUM	34.3	36.4	6	50.00	
ZINC	49.4	57.1	14	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
MERCURY	0.0222	0.0186	18	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
EFH (C15-C20)	1.2	1.3	8	50.00	No Qualifiers Applied
EFH (C21-C30)	13	19	38	50.00	
EFH (C30-C40)	48	69	36	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
4,4'-DDT	28 U	46	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
AROCLOR 1254	67	18	115	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
PHENANTHRENE	4.4	3.8	15	50.00	No Qualifiers Applied
BENZO(G,H,I)PERYLENE	6.0	8.6 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
FLUORANTHENE	20	19	5	50.00	No Qualifiers Applied
PYRENE	20	20	0	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	45	19	81	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-205-SA6-SS-0.0-0.5	DUP08-SA6-QC-072611			
PH	6.43	6.34	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE209

EDD Filename: DE209_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-072611	MERCURY	J	0.000043	0.00020	PQL	mg/L	J (all detects)

Method: 8081A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-072611	HEPTACHLOR	J	0.0074	0.0098	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-072611	Di-n-butylphthalate	J	0.14	0.98	PQL	ug/L	J (all detects)

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-317-SA6-SS-0.0-0.5	N-NITROSODIMETHYLAMINE	J	18.5	33.4	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA6-SS-0.0-0.5	FLUORIDE	J	0.99	1.0	PQL	mg/Kg	J (all detects)
SL-204-SA6-SS-0.0-0.5	Nitrate-NO3	J	1.4	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	BORON	J	1.66	4.95	PQL	mg/Kg	J (all detects)
	SODIUM	J	84.5	98.9	PQL	mg/Kg	
	TIN	J	2.35	9.89	PQL	mg/Kg	
	Zirconium	J	2.73	4.95	PQL	mg/Kg	
SL-012-SA6-SS-0.0-0.5	TIN	J	2.71	9.97	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.86	4.99	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE209

EDD Filename: DE209_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA6-SS-0.0-0.5	SODIUM	J	91.9	99.0	PQL	mg/Kg	J (all detects)
	TIN	J	2.41	9.90	PQL	mg/Kg	
	Zirconium	J	2.21	4.95	PQL	mg/Kg	
SL-077-SA6-SB-4.0-5.0	BORON	J	1.79	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.26	10.7	PQL	mg/Kg	
	Zirconium	J	3.41	5.36	PQL	mg/Kg	
SL-077-SA6-SB-9.0-10.0	BORON	J	4.10	5.77	PQL	mg/Kg	J (all detects)
	TIN	J	2.33	11.5	PQL	mg/Kg	
	Zirconium	J	4.55	5.77	PQL	mg/Kg	
SL-080-SA6-SB-3.5-4.5	TIN	J	1.59	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.852	5.18	PQL	mg/Kg	
SL-204-SA6-SS-0.0-0.5	BORON	J	2.04	4.86	PQL	mg/Kg	J (all detects)
	SODIUM	J	62.1	97.1	PQL	mg/Kg	
	TIN	J	1.87	9.71	PQL	mg/Kg	
	Zirconium	J	2.69	4.86	PQL	mg/Kg	
SL-205-SA6-SS-0.0-0.5	BORON	J	2.58	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.4	103	PQL	mg/Kg	
	TIN	J	2.37	10.3	PQL	mg/Kg	
	Zirconium	J	2.86	5.14	PQL	mg/Kg	
SL-206-SA6-SS-0.0-0.5	TIN	J	2.22	10.2	PQL	mg/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	SODIUM	J	96.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.16	10.1	PQL	mg/Kg	
SL-217-SA6-SS-0.0-0.5	SODIUM	J	95.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.12	10.3	PQL	mg/Kg	
SL-311-SA6-SS-0.0-0.5	BORON	J	2.45	4.87	PQL	mg/Kg	J (all detects)
	SODIUM	J	89.4	97.4	PQL	mg/Kg	
	TIN	J	2.74	9.74	PQL	mg/Kg	
	Zirconium	J	2.51	4.87	PQL	mg/Kg	
SL-317-SA6-SS-0.0-0.5	BORON	J	1.00	4.92	PQL	mg/Kg	J (all detects)
	SODIUM	J	74.2	98.4	PQL	mg/Kg	
	TIN	J	2.64	9.84	PQL	mg/Kg	
	Zirconium	J	2.63	4.92	PQL	mg/Kg	
SL-319-SA6-SS-0.0-0.5	BORON	J	1.83	4.85	PQL	mg/Kg	J (all detects)
	SODIUM	J	77.1	96.9	PQL	mg/Kg	
	TIN	J	2.20	9.69	PQL	mg/Kg	
	Zirconium	J	2.31	4.85	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	ANTIMONY	J	0.102	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.189	0.407	PQL	mg/Kg	
SL-012-SA6-SS-0.0-0.5	SELENIUM	J	0.0894	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0515	0.104	PQL	mg/Kg	
SL-013-SA6-SS-0.0-0.5	SELENIUM	J	0.0959	0.389	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0497	0.0971	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA6-SB-4.0-5.0	SELENIUM	J	0.0765	0.433	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0176	0.108	PQL	mg/Kg	
SL-077-SA6-SB-9.0-10.0	ANTIMONY	J	0.0869	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.169	0.444	PQL	mg/Kg	
	SILVER	J	0.0254	0.111	PQL	mg/Kg	
SL-080-SA6-SB-3.5-4.5	CADMIUM	J	0.0466	0.105	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0149	0.105	PQL	mg/Kg	
	THALLIUM	J	0.104	0.105	PQL	mg/Kg	
SL-204-SA6-SS-0.0-0.5	ANTIMONY	J	0.174	0.194	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.389	PQL	mg/Kg	
SL-205-SA6-SS-0.0-0.5	ANTIMONY	J	0.108	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.189	0.399	PQL	mg/Kg	
SL-206-SA6-SS-0.0-0.5	ANTIMONY	J	0.129	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.155	0.405	PQL	mg/Kg	
	SILVER	J	0.0421	0.101	PQL	mg/Kg	
SL-213-SA6-SS-0.0-0.5	ANTIMONY	J	0.112	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.139	0.418	PQL	mg/Kg	
	SILVER	J	0.0469	0.105	PQL	mg/Kg	
SL-217-SA6-SS-0.0-0.5	ANTIMONY	J	0.205	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.421	PQL	mg/Kg	
	SILVER	J	0.0611	0.105	PQL	mg/Kg	
SL-311-SA6-SS-0.0-0.5	ANTIMONY	J	0.141	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.397	PQL	mg/Kg	
SL-317-SA6-SS-0.0-0.5	ANTIMONY	J	0.126	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.165	0.397	PQL	mg/Kg	
SL-319-SA6-SS-0.0-0.5	SELENIUM	J	0.0855	0.388	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	1.0	PQL	mg/Kg	J (all detects)
SL-013-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.48	1.0	PQL	mg/Kg	J (all detects)
SL-077-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.43	1.0	PQL	mg/Kg	J (all detects)
SL-206-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.76	1.0	PQL	mg/Kg	J (all detects)
SL-217-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.67	1.1	PQL	mg/Kg	J (all detects)
SL-311-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.96	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE209 **Laboratory: LL**

EDD Filename: DE209_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	MERCURY	J	0.0186	0.0952	PQL	mg/Kg	J (all detects)
SL-012-SA6-SS-0.0-0.5	MERCURY	J	0.0327	0.0991	PQL	mg/Kg	J (all detects)
SL-013-SA6-SS-0.0-0.5	MERCURY	J	0.0341	0.0997	PQL	mg/Kg	J (all detects)
SL-077-SA6-SB-4.0-5.0	MERCURY	J	0.0222	0.106	PQL	mg/Kg	J (all detects)
SL-080-SA6-SB-3.5-4.5	MERCURY	J	0.0291	0.100	PQL	mg/Kg	J (all detects)
SL-204-SA6-SS-0.0-0.5	MERCURY	J	0.0198	0.100	PQL	mg/Kg	J (all detects)
SL-205-SA6-SS-0.0-0.5	MERCURY	J	0.0222	0.0977	PQL	mg/Kg	J (all detects)
SL-206-SA6-SS-0.0-0.5	MERCURY	J	0.0099	0.101	PQL	mg/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	MERCURY	J	0.0098	0.0993	PQL	mg/Kg	J (all detects)
SL-217-SA6-SS-0.0-0.5	MERCURY	J	0.0088	0.103	PQL	mg/Kg	J (all detects)
SL-311-SA6-SS-0.0-0.5	MERCURY	J	0.0835	0.0951	PQL	mg/Kg	J (all detects)
SL-317-SA6-SS-0.0-0.5	MERCURY	J	0.0157	0.0972	PQL	mg/Kg	J (all detects)
SL-319-SA6-SS-0.0-0.5	MERCURY	J	0.0610	0.0950	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	EFH (C15-C20)	J	1.3	2.5	PQL	mg/Kg	J (all detects)
SL-077-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.94	2.8	PQL	mg/Kg	J (all detects)
SL-204-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.90	1.2	PQL	mg/Kg	J (all detects)
SL-205-SA6-SS-0.0-0.5	EFH (C15-C20)	J	1.2	2.5	PQL	mg/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.89	2.5	PQL	mg/Kg	J (all detects)
SL-217-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.65	1.3	PQL	mg/Kg	J (all detects)
SL-317-SA6-SS-0.0-0.5	EFH (C15-C20)	J	0.73	1.2	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA6-SS-0.0-0.5	ENDOSULFAN II	J	0.25	0.35	PQL	ug/Kg	J (all detects)
	HEPTACHLOR EPOXIDE	J	0.047	0.17	PQL	ug/Kg	
SL-013-SA6-SS-0.0-0.5	Chlordane	J	2.3	3.4	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.22	0.34	PQL	ug/Kg	
	gamma-BHC (Lindane)	J	0.050	0.17	PQL	ug/Kg	
	HEPTACHLOR EPOXIDE	J	0.040	0.17	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-206-SA6-SS-0.0-0.5	Chlordane	J	1.6	3.6	PQL	ug/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	ENDRIN KETONE	J	0.18	0.36	PQL	ug/Kg	J (all detects)
SL-317-SA6-SS-0.0-0.5	4,4'-DDE HEPTACHLOR EPOXIDE	J J	0.19 0.073	0.34 0.17	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA6-SS-0.0-0.5	Aroclor 5460	J	1.3	3.4	PQL	ug/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	AROCLOR 1254	J	0.72	1.8	PQL	ug/Kg	J (all detects)
SL-217-SA6-SS-0.0-0.5	AROCLOR 1254	J	1.5	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA6-SS-0.0-0.5	MCPA	J	140	260	PQL	ug/Kg	J (all detects)
SL-013-SA6-SS-0.0-0.5	2,4-DB	J	0.94	1.7	PQL	ug/Kg	J (all detects)
SL-206-SA6-SS-0.0-0.5	2,4-DB	J	0.98	1.8	PQL	ug/Kg	J (all detects)
SL-213-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.12	0.18	PQL	ug/Kg	J (all detects)
SL-217-SA6-SS-0.0-0.5	2,4,5-TP (Silvex) 2,4-DB	J J	0.079 0.72	0.18 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-311-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.11	0.17	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	BIS(2-ETHYLHEXYL)PHTHALATE FLUORANTHENE PYRENE	J J J	19 19 20	340 170 170	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-012-SA6-SS-0.0-0.5	CHRYSENE	J	20	170	PQL	ug/Kg	J (all detects)
SL-013-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE BIS(2-ETHYLHEXYL)PHTHALATE PYRENE	J J J	23 42 18	170 340 170	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE209

EDD Filename: DE209_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	33	190	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	31	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	29	190	PQL	ug/Kg	
	PYRENE	J	43	190	PQL	ug/Kg	
SL-205-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	18	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	340	PQL	ug/Kg	
	CHRYSENE	J	23	170	PQL	ug/Kg	
	FLUORANTHENE	J	20	170	PQL	ug/Kg	
	PYRENE	J	20	170	PQL	ug/Kg	
SL-206-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	91	350	PQL	ug/Kg	J (all detects)
SL-217-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	41	350	PQL	ug/Kg	J (all detects)
SL-311-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	26	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	32	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	49	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	42	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	25	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	21	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	32	170	PQL	ug/Kg	
	PYRENE	J	60	170	PQL	ug/Kg	
SL-317-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	340	PQL	ug/Kg	J (all detects)
SL-319-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	63	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	65	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	36	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	40	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	36	340	PQL	ug/Kg	
	CHRYSENE	J	70	170	PQL	ug/Kg	
	FLUORANTHENE	J	100	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	30	170	PQL	ug/Kg	
	PHENANTHRENE	J	33	170	PQL	ug/Kg	
	PYRENE	J	130	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	BENZO(B)FLUORANTHENE	J	5.8	8.6	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	3.8	8.6	PQL	ug/Kg	
SL-012-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	4.6	8.6	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.1	8.6	PQL	ug/Kg	
SL-013-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	6.0	8.4	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	5.0	8.4	PQL	ug/Kg	
	FLUORANTHENE	J	6.8	8.4	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE209

Laboratory: LL

EDD Filename: DE209_v1

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	0.78	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.84	1.8	PQL	ug/Kg	
	PYRENE	J	0.86	1.8	PQL	ug/Kg	
SL-204-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.3	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.3	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	16	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.89	1.7	PQL	ug/Kg	
SL-205-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	6.0	8.6	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	4.4	8.6	PQL	ug/Kg	
SL-206-SA6-SS-0.0-0.5	ANTHRACENE	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	Di-n-octylphthalate	J	15	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-213-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.74	1.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.95	1.7	PQL	ug/Kg	
	FLUORANTHENE	J	0.91	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.72	1.7	PQL	ug/Kg	
SL-217-SA6-SS-0.0-0.5	CHRYSENE	J	0.45	1.7	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.72	1.7	PQL	ug/Kg	
SL-311-SA6-SS-0.0-0.5	ANTHRACENE	J	4.3	8.5	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	3.7	8.5	PQL	ug/Kg	
SL-317-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.42	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.1	1.7	PQL	ug/Kg	
SL-319-SA6-SS-0.0-0.5	1-METHYLNAPHTHALENE	J	1.1	1.7	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.6	1.7	PQL	ug/Kg	
	Butylbenzylphthalate	J	6.6	18	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.0	1.7	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.1	18	PQL	ug/Kg	
	Di-n-octylphthalate	J	11	18	PQL	ug/Kg	

LDC #: 26533B4
SDG #: DE209
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
ADR

Date: 11/7/11
Page: 1 of 1
Reviewer: MH
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates: 7/26/11
II.	ICP/MS Tune	N	
III.	Calibration	SW	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn >4X
VII.	Duplicate Sample Analysis	NA	Sb, Ag, Ag ΣFXKL
VIII.	Laboratory Control Samples (LCS)	NA	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=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-012-SA6-SS-0.0-0.5	11	SL-077-SA6-SB-4.0-5.0	21	MB	31	
2	SL-013-SA6-SS-0.0-0.5	12	SL-077-SA6-SB-9.0-10.0	22		32	
3	SL-204-SA6-SS-0.0-0.5	13	SL-080-SA6-SB-3.5-4.5	23		33	
4	SL-205-SA6-SS-0.0-0.5	14	EB-SA6-SS-072611 A	24		34	
5	SL-206-SA6-SS-0.0-0.5	15	SL-311-SA6-SS-0.0-0.5	25		35	
6	SL-213-SA6-SS-0.0-0.5	16	SL-205-SA6-SS-0.0-0.5MS	26		36	
7	SL-217-SA6-SS-0.0-0.5	17	SL-205-SA6-SS-0.0-0.5MSD	27		37	
8	SL-317-SA6-SS-0.0-0.5	18	SL-205-SA6-SS-0.0-0.5DUP	28		38	
9	SL-319-SA6-SS-0.0-0.5	19		29		39	
10	DUP08-SA6-QC-072611	20		30		40	

Notes: _____

LDC #: 26533B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x; Hg:167
Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All Water
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	14									
Hg		0.115	0.097	0.575	0.043									

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All Soil

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	5	6	7	8						
Hg			0.019	0.016	0.0099	0.0098	0.0088	0.016						

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 #: 26533B4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer:
2nd Reviewer:

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)
(Y) N N/A Were field blanks identified in this SDG?
(Y) N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/26/11 Soil factor applied Hg: 167
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification											
	14	Action Level	1	2	3	4	5	6	7	8	10	11	13
Hg	0.043	0.036	0.033	0.034	0.020	0.022	0.0099	0.0098	0.0088	0.016	0.019	0.022	0.029

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE209
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6356760BKG Matrix Spike Lab Sample ID: 6356761MS Matrix Spike Duplicate Lab Sample ID: 6356762MSD
% Solids for Sample: 97.3
Batch Id(s): P21308D, P21326C, P21311D

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		18122.9640		20863.1527		20805.8229		199.5630	195.7618	MG/KG	1373		1370		0			20	P
Antimony	121	0.1078	B	0.4243		0.4218		1.2333	1.1859	MG/KG	26	N	26	N	1		75 - 125	20	MS
Arsenic	75	4.1928		6.9229		6.6211		2.0555	1.9764	MG/KG	133	N	123		4		75 - 125	20	MS
Barium	137	99.4223		115.1490		111.8863		10.2775	9.8822	MG/KG	153		126		3			20	MS
Beryllium	9	0.5983		1.3589		1.3048		0.8222	0.7906	MG/KG	93		89		4		75 - 125	20	MS
Boron		2.5827	B	190.9249		187.1492		199.5630	195.7618	MG/KG	94		94		2		84 - 115	20	P
Cadmium	111	0.2716		1.3223		1.2309		1.0277	0.9882	MG/KG	102		97		7		75 - 125	20	MS
Calcium		2406.8119		3212.3450		3067.3665		399.1259	391.5235	MG/KG	202		169		5			20	P
Chromium	52	16.2883		26.1459		25.5159		10.2775	9.8822	MG/KG	96		93		2		75 - 125	20	MS
Cobalt	59	5.2744		55.0668		51.0712		51.3875	49.4110	MG/KG	97		93		8		75 - 125	20	MS
Copper	63	7.3619		17.8767		16.3452		10.2775	9.8822	MG/KG	102		91		9		75 - 125	20	MS
Iron		19925.8150		20335.1480		19515.1578		99.7815	97.8809	MG/KG	410		-420		4			20	P
Lead	208	7.2022		11.0113		9.1984		3.0832	2.9647	MG/KG	124		67	N	18		75 - 125	20	MS
Lithium		23.2004		122.3570		120.6450		99.7815	97.8809	MG/KG	99		100		1		82 - 114	20	P
Magnesium		4159.9075		4549.0007		4344.5642		199.5630	195.7618	MG/KG	195		94		5			20	P
Manganese		223.3422		277.3486		251.6214		49.8907	48.9404	MG/KG	108		58		10			20	P
Mercury		0.0222	B	0.1934		0.1822		0.1653	0.1612	MG/KG	104		99		6		65 - 135	20	CV
Molybdenum	98	0.5368		10.5406		9.6747		10.2775	9.8822	MG/KG	97		92		9		75 - 125	20	MS
Nickel	60	11.5168		22.8571		21.2863		10.2775	9.8822	MG/KG	110		99		7		75 - 125	20	MS
Phosphorus		294.2898		400.6955		378.7951		99.7815	97.8809	MG/KG	107		86		6		75 - 125	20	P
Potassium		2752.2261		3946.6039		3796.1611		997.8148	978.8088	MG/KG	120		107		4		75 - 125	20	P
Selenium	78	0.1888	B	2.1727		2.1227		2.0555	1.9764	MG/KG	97		98		2		75 - 125	20	MS
Silver	107	0.1234		10.5529		9.7656		10.2775	9.8822	MG/KG	101		98		8		75 - 125	20	MS
Sodium		88.3936	B	1011.4619		992.6159		997.8148	978.8088	MG/KG	93		92		2		75 - 125	20	P
Strontium		21.7081		119.8954		116.9314		99.7815	97.8809	MG/KG	98		97		3		75 - 115	20	P
Thallium	203	0.2650		0.6158		0.5546		0.4111	0.3953	MG/KG	85		73	N	10		75 - 125	20	MS
Tin		2.3731	B	332.0358		329.6227		399.1259	391.5235	MG/KG	83		84		1		80 - 110	20	P
Titanium		1010.0576		1184.2475		1159.6741		99.7815	97.8809	MG/KG	175		153		2			20	P
Vanadium	51	34.3248		48.4275		46.5254		10.2775	9.8822	MG/KG	137	N	123		4		75 - 125	20	MS
Zinc	66	49.4317		64.4810		59.6885		10.2775	9.8822	MG/KG	146		104		8			20	MS
Zirconium		2.8602	B	93.6988		92.8997		99.7815	97.8809	MG/KG	91		92		1		75 - 125	20	P

* Sb post spike = 95% J/wJ

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE209
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6356760BKG
% Solids for Duplicate: 97.5
Batch ID(s): P21308D, P21326C, P21311D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6356763DUP
% Solids for Sample: 97.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			18122.9640		17572.8941		3		P
Antimony	121		0.1078	B	0.0800	B	30		MS
Arsenic	75		4.1928		4.3125		3		MS
Barium	137		99.4223		97.2190		2		MS
Beryllium	9		0.5983		0.6250		4		MS
Boron			2.5827	B	2.6208	B	1		P
Cadmium	111	0.1	0.2716		0.2766		2		MS
Calcium			2406.8119		2555.3809		6		P
Chromium	52		16.2883		16.2629		0		MS
Cobalt	59		5.2744		5.0533		4		MS
Copper	63		7.3619		7.4425		1		MS
Iron			19925.8150		19566.2997		2		P
Lead	208		7.2022		7.1047		1		MS
Lithium			23.2004		22.9129		1		P
Magnesium			4159.9075		4120.1844		1		P
Manganese			223.3422		226.0683		1		P
Mercury			0.0222	B	0.0163	B	31		CV
Molybdenum	98		0.5368		0.5743		7		MS
Nickel	60		11.5168		11.3073		2		MS
Phosphorus			294.2898		316.0546		7		P
Potassium			2752.2261		2905.9679		5		P
Selenium	78		0.1888	B	0.1923	B	2		MS
Silver	107	0.1	0.1234		0.0895	B	32		MS
Sodium			88.3936	B	85.8171	B	3		P
Strontium			21.7081		22.6727		4		P
Thallium	203	0.1	0.2650		0.2395		10		MS
Tin			2.3731	B	2.3530	B	1		P
Titanium			1010.0576		998.5977		1		P
Vanadium	51		34.3248		34.5975		1		MS
Zinc	66		49.4317		50.2071		2		MS
Zirconium			2.8602	B	3.3343	B	15		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE209 6818

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
* = Duplicate Out of Spec

SAMPLE DELIVERY GROUP

DE210

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3050B	6010B	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3050B	6020	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3060A	7199	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8081A	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8082	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8151A	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8270C	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8270C SIM	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	300.0	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	314.0	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	7471A	III
27-Jul-2011	TB-072711	6358396	TB	5030B	8015M	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3060A	7199	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3060A	7199	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	7471A	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3050B	6010B	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3050B	6020	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3060A	7199	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8081A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8082	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8151A	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8270C	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8270C SIM	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	300.0	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	314.0	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3050B	6010B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3050B	6020	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3060A	7199	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8015B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8015M	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8082	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8270C	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8270C SIM	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	5035	8015M	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	300.0	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	314.0	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	6850	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	8015B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3050B	6010B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3050B	6020	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3060A	7199	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8082	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8270C	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8270C SIM	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	5035	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	300.0	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	314.0	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	8015B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3050B	6010B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3050B	6020	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3060A	7199	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8081A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8082	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8151A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8270C	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8270C SIM	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	300.0	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	314.0	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	7471A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MSD	P358385M320038A	MSD	3550B	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MSD	P358385M320653A	MSD	3550B	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MS	P358385R320014A	MS	3550B	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MS	P358385R320058A	MS	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3050B	6010B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3050B	6020	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3060A	7199	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8015M	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8082	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8270C	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8270C SIM	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	5035	8015M	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	300.0	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	314.0	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	7471A	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	8015M	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3050B	6010B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3050B	6020	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3060A	7199	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8015M	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8082	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8270C	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8270C SIM	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	5035	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	300.0	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	314.0	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	7471A	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	8015B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3050B	6010B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3050B	6020	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3060A	7199	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8015B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8082	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8270C	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8270C SIM	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	5035	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	300.0	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	314.0	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	7471A	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	8015B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3050B	6010B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3050B	6020	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3060A	7199	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8015B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8082	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8270C SIM	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	5035	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	300.0	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	314.0	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	7471A	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	8015B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3005A	6010B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3020A	6020	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8015B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8082	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8270C	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8270C SIM	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3520C	1625C	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8260B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8260B SIM	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	8330	8330A	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	300.0	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	314.0	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	7199	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	8015B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	7470A	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	9012B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3050B	6010B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3050B	6020	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3060A	7199	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3546	1625C	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8082	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8270C	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8270C SIM	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	5035	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	8330	8330A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	7471A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8315A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	9012B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0DU	P358394D270527B	DUP	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0DU	P358394D270843B	DUP	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0MS	P358394R270541B	MS	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0MS	P358394R270929B	MS	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3050B	6010B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3050B	6020	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3546	1625C	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8082	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8270C	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8270C SIM	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	5035	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	8330	8330A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	7471A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8315A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	9012B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-9.0-10.0 *Collected:* 7/27/2011 2:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0035	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
SODIUM	0.295	J	0.0647	MDL	1.00	PQL	mg/L	J	Z
STRONTIUM	0.00026	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z
Zirconium	0.0049	J	0.0042	MDL	0.0500	PQL	mg/L	U	B, B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2850		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	98.5	J	6.12	MDL	103	PQL	mg/Kg	U	F
TIN	3.96	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.79	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3300		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	94.4	J	6.05	MDL	102	PQL	mg/Kg	U	F
TIN	3.02	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.83	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
POTASSIUM	2520		11.3	MDL	50.0	PQL	mg/Kg	J	Q
SODIUM	124		5.96	MDL	100	PQL	mg/Kg	U	F
TIN	2.97	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.35	J	0.354	MDL	4.92	PQL	mg/Kg	J	Z
POTASSIUM	2670		11.1	MDL	49.2	PQL	mg/Kg	J	Q
SODIUM	110		5.85	MDL	98.3	PQL	mg/Kg	U	F
TIN	3.31	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.452	MDL	4.92	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3330		11.9	MDL	52.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.37	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4300		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	3.08	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3120		11.9	MDL	52.6	PQL	mg/Kg	J	Q
TIN	3.71	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.96	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-089-SA6-SB-4.0-5.0 **Collected:** 7/27/2011 9:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3270		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.87	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.86	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 **Collected:** 7/27/2011 10:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3940		12.5	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.92	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-117-SA6-SB-2.0-3.0 **Collected:** 7/27/2011 12:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.25	J	0.365	MDL	5.07	PQL	mg/Kg	J	Z
POTASSIUM	2870		11.5	MDL	50.7	PQL	mg/Kg	J	Q
TIN	2.92	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 **Collected:** 7/27/2011 2:31:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2890		11.2	MDL	49.4	PQL	mg/Kg	J	Q
SODIUM	108		5.88	MDL	98.8	PQL	mg/Kg	U	F
TIN	2.71	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.454	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected:** 7/27/2011 2:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3120		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	3.29	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0725	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.89		0.0514	MDL	0.103	PQL	mg/Kg	J	FD

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.8		0.109	MDL	0.411	PQL	mg/Kg	J	E

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.370		0.0761	MDL	0.206	PQL	mg/Kg	J	Q, FD
ARSENIC	5.52		0.0822	MDL	0.411	PQL	mg/Kg	J	FD
CADMIUM	1.06		0.0452	MDL	0.103	PQL	mg/Kg	J	FD
CHROMIUM	24.5		0.123	MDL	0.411	PQL	mg/Kg	J	A
COPPER	57.7		0.0822	MDL	0.411	PQL	mg/Kg	J	E, FD
LEAD	59.4		0.0105	MDL	0.206	PQL	mg/Kg	J	E, FD
NICKEL	31.5		0.103	MDL	0.411	PQL	mg/Kg	J	Q, FD
SILVER	0.506		0.0146	MDL	0.103	PQL	mg/Kg	J	E
VANADIUM	34.1		0.0226	MDL	0.103	PQL	mg/Kg	J	A

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.576		0.0494	MDL	0.0988	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.4		0.105	MDL	0.395	PQL	mg/Kg	J	E

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q, FD
ARSENIC	3.12		0.0791	MDL	0.395	PQL	mg/Kg	J	FD
CADMIUM	0.613		0.0435	MDL	0.0988	PQL	mg/Kg	J	FD
CHROMIUM	18.4		0.119	MDL	0.395	PQL	mg/Kg	J	A
COPPER	12.2		0.0791	MDL	0.395	PQL	mg/Kg	J	E, FD
LEAD	27.3		0.0101	MDL	0.198	PQL	mg/Kg	J	E, FD
NICKEL	13.7		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, FD
SILVER	0.513		0.0140	MDL	0.0988	PQL	mg/Kg	J	E
VANADIUM	30.0		0.0217	MDL	0.0988	PQL	mg/Kg	J	A

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	75.6		0.106	MDL	0.400	PQL	mg/Kg	J	E

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0741	U	0.0741	MDL	0.200	PQL	mg/Kg	UJ	Q
CHROMIUM	30.2		0.120	MDL	0.400	PQL	mg/Kg	J	A
COPPER	16.2		0.0801	MDL	0.400	PQL	mg/Kg	J	E
LEAD	13.3		0.0102	MDL	0.200	PQL	mg/Kg	J	E
NICKEL	9.96		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0768	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, E
VANADIUM	28.0		0.0220	MDL	0.100	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71.9		0.108	MDL	0.409	PQL	mg/Kg	J	E

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0757	MDL	0.204	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.3		0.123	MDL	0.409	PQL	mg/Kg	J	A
COPPER	13.5		0.0818	MDL	0.409	PQL	mg/Kg	J	E
LEAD	34.3		0.0104	MDL	0.204	PQL	mg/Kg	J	E
NICKEL	11.3		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.107		0.0145	MDL	0.102	PQL	mg/Kg	J	E
VANADIUM	31.2		0.0225	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.9		0.114	MDL	0.429	PQL	mg/Kg	J	E

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
CHROMIUM	18.0		0.129	MDL	0.429	PQL	mg/Kg	J	A
COPPER	9.76		0.0858	MDL	0.429	PQL	mg/Kg	J	E
LEAD	5.46		0.0109	MDL	0.215	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	12.0		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
VANADIUM	39.8		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.121	MDL	0.455	PQL	mg/Kg	J	E

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0842	MDL	0.228	PQL	mg/Kg	J	Z, Q
CHROMIUM	27.7		0.137	MDL	0.455	PQL	mg/Kg	J	A
COPPER	13.8		0.0910	MDL	0.455	PQL	mg/Kg	J	E
LEAD	7.98		0.0116	MDL	0.228	PQL	mg/Kg	J	E
NICKEL	17.7		0.114	MDL	0.455	PQL	mg/Kg	J	Q
SILVER	0.0308	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, E
VANADIUM	56.8		0.0250	MDL	0.114	PQL	mg/Kg	J	A

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0901	J	0.0598	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.0		0.109	MDL	0.413	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0764	U	0.0764	MDL	0.206	PQL	mg/Kg	UJ	Q
CHROMIUM	20.3		0.124	MDL	0.413	PQL	mg/Kg	J	A
COPPER	29.1		0.0825	MDL	0.413	PQL	mg/Kg	J	E
LEAD	6.79		0.0105	MDL	0.206	PQL	mg/Kg	J	E
NICKEL	18.0		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0295	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, E
VANADIUM	39.3		0.0227	MDL	0.103	PQL	mg/Kg	J	A

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	83.5		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	U	0.0782	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	18.3		0.127	MDL	0.423	PQL	mg/Kg	J	A
COPPER	9.46		0.0845	MDL	0.423	PQL	mg/Kg	J	E
LEAD	5.52		0.0108	MDL	0.211	PQL	mg/Kg	J	E
NICKEL	11.6		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0241	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, E
VANADIUM	38.1		0.0232	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.9		0.112	MDL	0.424	PQL	mg/Kg	J	E

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.108	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.4		0.127	MDL	0.424	PQL	mg/Kg	J	A
COPPER	11.9		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	8.45		0.0108	MDL	0.212	PQL	mg/Kg	J	E
NICKEL	12.4		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0321	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, E
VANADIUM	43.2		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.7		0.110	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.158	J	0.0765	MDL	0.207	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0626	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	11.3		0.124	MDL	0.413	PQL	mg/Kg	J	A
COPPER	4.98		0.0827	MDL	0.413	PQL	mg/Kg	J	E
LEAD	3.37		0.0105	MDL	0.207	PQL	mg/Kg	J	E
NICKEL	6.82		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0147	U	0.0147	MDL	0.103	PQL	mg/Kg	UJ	E
VANADIUM	26.5		0.0227	MDL	0.103	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.2		0.108	MDL	0.407	PQL	mg/Kg	J	E

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0753	MDL	0.203	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.5		0.122	MDL	0.407	PQL	mg/Kg	J	A
COPPER	12.6		0.0814	MDL	0.407	PQL	mg/Kg	J	E
LEAD	6.21		0.0104	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	11.2		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0299	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, E
VANADIUM	40.0		0.0224	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0951	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.120	MDL	0.452	PQL	mg/Kg	J	E

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0835	U	0.0835	MDL	0.226	PQL	mg/Kg	UJ	Q
CHROMIUM	24.0		0.135	MDL	0.452	PQL	mg/Kg	J	A
COPPER	11.0		0.0903	MDL	0.452	PQL	mg/Kg	J	E
LEAD	6.83		0.0115	MDL	0.226	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected:** 7/27/2011 2:49:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	17.7		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0375	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, E
VANADIUM	47.9		0.0248	MDL	0.113	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP09-SA6-QC-072711 **Collected:** 7/27/2011 8:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 8:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 7:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 **Collected:** 7/27/2011 8:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SB-072711 **Collected:** 7/27/2011 1:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000029	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0528	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0573	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0930	J	0.0069	MDL	0.0978	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0198	J	0.0076	MDL	0.108	PQL	mg/Kg	U	F

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0073	MDL	0.104	PQL	mg/Kg	U	F

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0594	J	0.0071	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0078	MDL	0.111	PQL	mg/Kg	U	B, F

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 1625C **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.30		0.482	MDL	0.964	PQL	ng/L	J	S

Method Category: SVOA **Method:** 8015M **Matrix:** SO

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-089-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.93	J	0.89	MDL	2.7	PQL	mg/Kg	J	Z

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	140		4.2	MDL	22	PQL	ug/Kg	J	FD

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	4.5	U	4.5	MDL	4.5	PQL	ug/Kg	UJ	FD
Chlordane	4.1	U	4.1	MDL	17	PQL	ug/Kg	UJ	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	66		3.4	MDL	17	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	13		0.68	MDL	3.5	PQL	ug/Kg	J	FD
Chlordane	27	J	8.2	MDL	35	PQL	ug/Kg	J	Z, FD

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4300		340	MDL	1700	PQL	ug/Kg	J	FD
AROCLOR 1260	400	U	400	MDL	1700	PQL	ug/Kg	UJ	FD
Aroclor 5460	9000		1000	MDL	3400	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	FD
AROCLOR 1260	14		0.40	MDL	1.7	PQL	ug/Kg	J	FD
Aroclor 5460	17		1.0	MDL	3.4	PQL	ug/Kg	J	FD

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	33	J	10	MDL	34	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.0	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.6	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	3.4		0.63	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.64	MDL	1.7	PQL	ug/Kg	J	Z, Q, Q, FD
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	Q, Q

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	150	J	76	MDL	250	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	16	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	24	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
PYRENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	R	Q, Q
3-NITROANILINE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4-CHLOROANILINE	69	U	69	MDL	170	PQL	ug/Kg	UJ	Q
4-NITROANILINE	69	U	69	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	510	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
Di-n-butylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	17	MDL	340	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	35	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	41	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	65	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	24	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	23	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	30	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	17	MDL	350	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.062	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.080	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Dimethylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.50	J	0.053	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	4.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	5.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	4.3	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	17		3.4	MDL	8.6	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	3.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	5.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	6.3	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	3.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	22		3.4	MDL	8.6	PQL	ug/Kg	J	FD
FLUORANTHENE	4.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PHENANTHRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PYRENE	6.1	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	3.2	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
ANTHRACENE	7.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.2	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
PHENANTHRENE	4.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.62	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.5	J	6.1	MDL	18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	7.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Dimethylphthalate	8.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.76	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.79	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.84	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	7.9	J	1.8	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.2	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.1	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.7	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
FLUORENE	4.1	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	4.9	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PHENANTHRENE	8.3	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PYRENE	8.5	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.46	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.96	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.4	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.5	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	4.6	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
CHRYSENE	4.9	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
FLUORANTHENE	5.3	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
PYRENE	5.5	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.8	MDL	21	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 **Collected:** 7/27/2011 2:31:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	830	U	830	MDL	2500	PQL	ug/Kg	UJ	L

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected:** 7/27/2011 2:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	910	U	910	MDL	2700	PQL	ug/Kg	UJ	L

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-017-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 9:14:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 **Collected:** 7/27/2011 1:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percant Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE210

Method Blank Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-072711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072711(REA2)	BORON	0.0035 mg/L	0.0035U mg/L
EB-SA6-SB-072711(REA2)	Zirconium	0.0049 mg/L	0.0049U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408DB222152	8/4/2011 9:52:00 PM	ALUMINUM BORON CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	8.06 mg/Kg 0.427 mg/Kg 6.22 mg/Kg 2.83 mg/Kg 0.0451 mg/Kg 1.22 mg/Kg 0.0333 mg/Kg 1.70 mg/Kg	DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA6-QC-072711(RES)	TIN	3.96 mg/Kg	3.96U mg/Kg
SL-009-SA6-SS-0.0-0.5(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-017-SA6-SS-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-028-SA6-SS-0.0-0.5(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-069-SA6-SB-4.0-5.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-069-SA6-SB-9.0-10.0(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-076-SA6-SB-2.0-3.0(RES)	TIN	3.71 mg/Kg	3.71U mg/Kg
SL-089-SA6-SB-4.0-5.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-089-SA6-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-117-SA6-SB-2.0-3.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-179-SA5DN-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	TIN	3.29 mg/Kg	3.29U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21426AB220423A	8/5/2011 4:23:00 AM	VANADIUM	0.0358 mg/Kg	DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21013CB220815	8/1/2011 8:15:00 AM	MERCURY	0.00011 mg/L	EB-SA6-SB-072711

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072711(RES)	MERCURY	0.000029 mg/L	0.000029U mg/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA6-SS-0.0-0.5MS SL-017-SA6-SS-0.0-0.5MSD (SL-017-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL	21	23	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-017-SA6-SS-0.0-0.5MS SL-017-SA6-SS-0.0-0.5MSD (SL-017-SA6-SS-0.0-0.5)	EFH (C12-C14)	0	0	49.00-123.00	-	EFH (C12-C14)	No Qual, Diluted Out
	EFH (C15-C20)	0	0	49.00-123.00	-	EFH (C15-C20)	
	EFH (C21-C30)	-6272	-6258	49.00-123.00	-	EFH (C21-C30)	
	EFH (C30-C40)	-38230	-44001	49.00-123.00	-	EFH (C30-C40)	
	EFH (C8-C11)	0	0	49.00-123.00	-	EFH (C8-C11)	

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	ENDOSULFAN II	529	3517	28.00-154.00	148 (50.00)	ENDOSULFAN II	No Qual, Diluted Out
	ENDRIN ALDEHYDE	500	2580	10.00-148.00	135 (35.00)	ENDRIN ALDEHYDE	
	HEPTACHLOR EPOXIDE	1227	15336	13.00-157.00	170 (50.00)	HEPTACHLOR EPOXIDE	
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual Diluted Out
	4,4'-DDE	-62	36352	16.00-161.00	181 (50.00)	4,4'-DDE	
	4,4'-DDT	-191	62732	10.00-176.00	156 (50.00)	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	DIELDRIN	0	21726	19.00-154.00	200 (50.00)	DIELDRIN	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN SULFATE	0	0	21.00-160.00	-	ENDOSULFAN SULFATE	
	ENDRIN	519	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	gamma-BHC (Lindane)	0	-	10.00-140.00	200 (50.00)	gamma-BHC (Lindane)	
	HEPTACHLOR	0	312	13.00-126.00	200 (50.00)	HEPTACHLOR	
	METHOXYCHLOR	0	0	32.00-147.00	-	METHOXYCHLOR	

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	DINOSEB	9	0	10.00-46.00	200 (35.00)	DINOSEB	J(all detects) R(all non-detects)
SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	2,4-DB	-	1	10.00-201.00	157 (50.00)	2,4-DB	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	NICKEL	-	127	75.00-125.00	-	NICKEL	J(all detects)
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ANTIMONY ZINC	28 -	29 14	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x Sb post spike= 88%
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	LEAD	231	30	75.00-125.00	-	LEAD	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	BARIUM	37	297	75.00-125.00	22 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM	548 193	367 -	75.00-125.00 75.00-125.00	- -	ALUMINUM CALCIUM	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	IRON MAGNESIUM MANGANESE	-1613 43 -8	-1628 -69 -34	75.00-125.00 75.00-125.00 75.00-125.00	- - -	IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	PHOSPHORUS POTASSIUM TITANIUM	59 - -	30 70 62	75.00-125.00 75.00-125.00 75.00-125.00	- - -	PHOSPHORUS POTASSIUM TITANIUM	J(all detects) UJ(all non-detects) P, Ti, No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT Dimethylphthalate Di-n-butylphthalate FLUORANTHENE NAPHTHALENE	312 - 159 169 -	578 139 199 157 106	39.00-167.00 74.00-118.00 65.00-148.00 51.00-149.00 61.00-102.00	60 (30.00) - - - -	BIS(2-ETHYLHEXYL)PHTHALA Dimethylphthalate Di-n-butylphthalate FLUORANTHENE NAPHTHALENE	No Qual, Diluted Out
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	BENZO(K)FLUORANTHENE	43	36	57.00-153.00	-	BENZO(K)FLUORANTHENE	No Qual Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	HEXACHLOROCYCLOPENTADI	-	-	10.00-153.00	84 (30.00)	HEXACHLOROCYCLOPENTAD	J(all detects)
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE ANILINE BENZIDINE	0 0 0	10 - 0	28.00-109.00 18.00-116.00 35.00-141.00	200 (30.00) 200 (30.00) -	3,3'-DICHLOROBENZIDINE ANILINE BENZIDINE	J(all detects) R(all non-detects)
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL 3-NITROANILINE 4-CHLOROANILINE 4-NITROANILINE	- 14 10 20	17 56 - -	20.00-143.00 59.00-122.00 13.00-107.00 41.00-109.00	31 (30.00) 118 (30.00) 96 (30.00) 81 (30.00)	2,4-DINITROPHENOL 3-NITROANILINE 4-CHLOROANILINE 4-NITROANILINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA6-SS-0.0-0.5DUP (DUP09-SA6-QC-072711 SL -009-SA6-SS-0.0-0.5 SL -017-SA6-SS-0.0-0.5 SL -028-SA6-SS-0.0-0.5 SL -069-SA6-SB-4.0-5.0 SL -069-SA6-SB-9.0-10.0 SL -076-SA6-SB-2.0-3.0 SL -089-SA6-SB-4.0-5.0 SL -089-SA6-SB-9.0-10.0 SL -117-SA6-SB-2.0-3.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA6-SS-0.0-0.5DUP (DUP09-SA6-QC-072711 SL -009-SA6-SS-0.0-0.5 SL -017-SA6-SS-0.0-0.5 SL -028-SA6-SS-0.0-0.5 SL -069-SA6-SB-4.0-5.0 SL -069-SA6-SB-9.0-10.0 SL -076-SA6-SB-2.0-3.0 SL -089-SA6-SB-4.0-5.0 SL -089-SA6-SB-9.0-10.0 SL -117-SA6-SB-2.0-3.0 SL -179-SA5DN-SB-4.0-5.0 SL -179-SA5DN-SB-9.0-10.0)	COPPER	26	20.00	J(all detects) UJ(all non-detects)
	LEAD	196	20.00	
	SILVER	24	20.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12106AQ242049A P12106AY242131A (EB-SA6-SB-072711)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 133	- 110 133	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSQ262148 (EB-SA6-SB-072711)	ACENAPHTHENE FLUORENE	116 116	- -	74.00-109.00 75.00-114.00	- -	ACENAPHTHENE FLUORENE	J(all detects)
P0WALCSQ262148 P0WALCSY262221 (EB-SA6-SB-072711)	Dimethylphthalate	26	30	40.00-119.00	-	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSQ260445 P0WBLCSY260510 (EB-SA6-SB-072711)	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLETH	113 -	- 120	79.00-107.00 75.00-115.00	- -	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLET	J(all detects)
P0WBLCSY260510 (EB-SA6-SB-072711)	BENZOIC ACID	-	-	10.00-69.00	33 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y49Y211348A (EB-SA6-SB-072711)	2-Chloro-1,1,1-trifluoroethane	-	75	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426AQ220426A (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408DQ222155 (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ALUMINUM TITANIUM	134 161	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-072711	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA6-SS-0.0 -0.5	n-Triacontane-d62	0	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP09-SA6-QC-072711	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-009-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	No Qual, Diluted Out

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	40 49	45.00-120.00 53.00-139.00	All Target Analytes	No Qual, Diluted Out

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-028-SA6-SS-0.0 -0.5	Terphenyl-d14	140	45.00-135.00	No Affected Compounds	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MOISTURE	2.7	2.7	0		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
ALUMINUM	12100	10700	12	50.00	No Qualifiers Applied
BORON	6.21	5.76	8	50.00	
CALCIUM	3490	4490	25	50.00	
IRON	18400	18400	0	50.00	
LITHIUM	20.9	17.7	17	50.00	
MAGNESIUM	4010	3530	13	50.00	
MANGANESE	298	294	1	50.00	
PHOSPHORUS	464	472	2	50.00	
POTASSIUM	3300	2850	15	50.00	
SODIUM	94.4	98.5	4	50.00	
STRONTIUM	18.9	20.0	6	50.00	
TIN	3.02	3.96	27	50.00	
TITANIUM	1030	884	15	50.00	
Zirconium	3.31	2.79	17	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
BARIUM	97.4	98.8	1	50.00	No Qualifiers Applied
BERYLLIUM	0.419	0.359	15	50.00	
CHROMIUM	18.4	24.5	28	50.00	
COBALT	5.01	6.58	27	50.00	
SELENIUM	0.113	0.0725	44	50.00	
SILVER	0.513	0.506	1	50.00	
THALLIUM	0.222	0.187	17	50.00	
VANADIUM	30.0	34.1	13	50.00	
ZINC	115	172	40	50.00	
ANTIMONY	0.123	0.370	100	50.00	J(all detects)
ARSENIC	3.12	5.52	56	50.00	
CADMIUM	0.613	1.06	53	50.00	
COPPER	12.2	57.7	130	50.00	
LEAD	27.3	59.4	74	50.00	
MOLYBDENUM	0.576	3.89	148	50.00	
NICKEL	13.7	31.5	79	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
HEXAVALENT CHROMIUM	0.59	0.46	25	50.00	No Qualifiers Applied

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MERCURY	0.0573	0.0528	8	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
4,4'-DDE	13	4.5 U	200	50.00	J(all detects) UJ(all non-detects)
4,4'-DDT	66	140	72	50.00	
Chlordane	27	17 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
AROCLOR 1254	1.7 U	4300	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	14	1700 U	200	50.00	
Aroclor 5460	17	9000	199	50.00	

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
2,4-DB	1.2	3.4	96	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
BENZO(A)ANTHRACENE	6.3	4.8	27	50.00	No Qualifiers Applied
ANTHRACENE	8.6 U	2.1	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	8.6 U	5.5	200	50.00	
BENZO(K)FLUORANTHENE	22	4.3	135	50.00	
FLUORANTHENE	4.6	17	115	50.00	
INDENO(1,2,3-CD)PYRENE	8.6 U	3.6	200	50.00	
PHENANTHRENE	8.6 U	5.6	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
Di-n-butylphthalate	170 U	24	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	*Concentration (pH unit)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
PH	7.24	7.33	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	BORON	J	0.0035	0.0500	PQL	mg/L	J (all detects)
	SODIUM	J	0.295	1.00	PQL	mg/L	
	STRONTIUM	J	0.00026	0.0050	PQL	mg/L	
	Zirconium	J	0.0049	0.0500	PQL	mg/L	

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	MERCURY	J	0.000029	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.062	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.080	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.50	1.1	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-179-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	SODIUM	J	98.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	3.96	10.3	PQL	mg/Kg	
	Zirconium	J	2.79	5.14	PQL	mg/Kg	
SL-009-SA6-SS-0.0-0.5	SODIUM	J	94.4	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	10.2	PQL	mg/Kg	
	Zirconium	J	3.31	5.09	PQL	mg/Kg	
SL-017-SA6-SS-0.0-0.5	BORON	J	3.83	5.00	PQL	mg/Kg	J (all detects)
	TIN	J	2.97	10.0	PQL	mg/Kg	
	Zirconium	J	2.77	5.00	PQL	mg/Kg	
SL-028-SA6-SS-0.0-0.5	BORON	J	4.35	4.92	PQL	mg/Kg	J (all detects)
	TIN	J	3.31	9.83	PQL	mg/Kg	
	Zirconium	J	2.85	4.92	PQL	mg/Kg	
SL-069-SA6-SB-4.0-5.0	TIN	J	3.02	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.37	5.26	PQL	mg/Kg	
SL-069-SA6-SB-9.0-10.0	TIN	J	3.08	11.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA6-SB-2.0-3.0	TIN	J	3.71	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.96	5.26	PQL	mg/Kg	
SL-089-SA6-SB-4.0-5.0	TIN	J	2.87	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.86	5.23	PQL	mg/Kg	
SL-089-SA6-SB-9.0-10.0	TIN	J	2.92	11.0	PQL	mg/Kg	J (all detects)
SL-117-SA6-SB-2.0-3.0	BORON	J	3.25	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	2.92	10.1	PQL	mg/Kg	
	Zirconium	J	2.50	5.07	PQL	mg/Kg	
SL-179-SA5DN-SB-4.0-5.0	TIN	J	2.71	9.88	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.92	4.94	PQL	mg/Kg	
SL-179-SA5DN-SB-9.0-10.0	TIN	J	3.29	11.1	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	SELENIUM	J	0.0725	0.411	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	ANTIMONY	J	0.123	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.395	PQL	mg/Kg	
SL-017-SA6-SS-0.0-0.5	SELENIUM	J	0.148	0.400	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0768	0.100	PQL	mg/Kg	
SL-028-SA6-SS-0.0-0.5	ANTIMONY	J	0.124	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.409	PQL	mg/Kg	
SL-069-SA6-SB-4.0-5.0	SELENIUM	J	0.151	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0405	0.107	PQL	mg/Kg	
SL-069-SA6-SB-9.0-10.0	ANTIMONY	J	0.101	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.149	0.455	PQL	mg/Kg	
	SILVER	J	0.0308	0.114	PQL	mg/Kg	
SL-076-SA6-SB-2.0-3.0	SELENIUM	J	0.0901	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0295	0.103	PQL	mg/Kg	
SL-089-SA6-SB-4.0-5.0	SELENIUM	J	0.113	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.106	PQL	mg/Kg	
SL-089-SA6-SB-9.0-10.0	ANTIMONY	J	0.108	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.424	PQL	mg/Kg	
	SILVER	J	0.0321	0.106	PQL	mg/Kg	
SL-117-SA6-SB-2.0-3.0	ANTIMONY	J	0.158	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0626	0.103	PQL	mg/Kg	
	SELENIUM	J	0.107	0.413	PQL	mg/Kg	
SL-179-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.169	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.407	PQL	mg/Kg	
	SILVER	J	0.0299	0.102	PQL	mg/Kg	
SL-179-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0951	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0375	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	HEXAVALENT CHROMIUM	J	0.46	1.0	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.72	1.0	PQL	mg/Kg	J (all detects)
SL-069-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	MERCURY	J	0.0528	0.101	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	MERCURY	J	0.0573	0.100	PQL	mg/Kg	J (all detects)
SL-017-SA6-SS-0.0-0.5	MERCURY	J	0.0930	0.0978	PQL	mg/Kg	J (all detects)
SL-069-SA6-SB-4.0-5.0	MERCURY	J	0.0198	0.108	PQL	mg/Kg	J (all detects)
SL-089-SA6-SB-4.0-5.0	MERCURY	J	0.0189	0.104	PQL	mg/Kg	J (all detects)
SL-179-SA5DN-SB-4.0-5.0	MERCURY	J	0.0594	0.102	PQL	mg/Kg	J (all detects)
SL-179-SA5DN-SB-9.0-10.0	MERCURY	J	0.0085	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.93	2.7	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA6-SS-0.0-0.5	Chlordane	J	27	35	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	Aroclor 5460	J	33	34	PQL	ug/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	Aroclor 5460	J	2.0	3.4	PQL	ug/Kg	J (all detects)
SL-117-SA6-SB-2.0-3.0	Aroclor 5460	J	2.3	3.4	PQL	ug/Kg	J (all detects)
SL-179-SA5DN-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	1.6 2.6	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA6-SS-0.0-0.5	2,4-DB	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	MCPP	J	150	250	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	BENZO(B)FLUORANTHENE	J	22	170	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	23	170	PQL	ug/Kg	
	CHRYSENE	J	25	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	24	170	PQL	ug/Kg	
	PYRENE	J	17	170	PQL	ug/Kg	
SL-017-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	38	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	340	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	19	170	PQL	ug/Kg	
SL-069-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	29	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	24	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	27	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	27	180	PQL	ug/Kg	
	CHRYSENE	J	35	180	PQL	ug/Kg	
	FLUORANTHENE	J	55	180	PQL	ug/Kg	
	PHENANTHRENE	J	41	180	PQL	ug/Kg	
	PYRENE	J	65	180	PQL	ug/Kg	
SL-069-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	20	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	27	190	PQL	ug/Kg	
	FLUORANTHENE	J	24	190	PQL	ug/Kg	
	PYRENE	J	22	190	PQL	ug/Kg	
SL-089-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	22	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	37	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	23	190	PQL	ug/Kg	
	PYRENE	J	30	190	PQL	ug/Kg	
SL-179-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	ANTHRACENE	J	2.1	8.6	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	4.8	8.6	PQL	ug/Kg	
	BENZO(A)PYRENE	J	5.5	8.6	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	4.3	8.6	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.6	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	5.6	8.6	PQL	ug/Kg	
SL-009-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.3	8.6	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	3.6	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	4.6	8.6	PQL	ug/Kg	
	PYRENE	J	6.1	8.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	3.2	8.6	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	7.1	8.6	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.2	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	4.5	8.6	PQL	ug/Kg	
SL-028-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.62	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.5	18	PQL	ug/Kg	
	Diethylphthalate	J	7.7	18	PQL	ug/Kg	
	Dimethylphthalate	J	8.4	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.7	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.76	1.7	PQL	ug/Kg	
SL-069-SA6-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.82	1.8	PQL	ug/Kg	
SL-069-SA6-SB-9.0-10.0	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.79	1.9	PQL	ug/Kg	
SL-076-SA6-SB-2.0-3.0	1-METHYLNAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.84	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.4	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
SL-089-SA6-SB-4.0-5.0	ANTHRACENE	J	7.9	9.2	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.2	9.2	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.1	9.2	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.7	9.2	PQL	ug/Kg	
	FLUORENE	J	4.1	9.2	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.9	9.2	PQL	ug/Kg	
	PHENANTHRENE	J	8.3	9.2	PQL	ug/Kg	
	PYRENE	J	8.5	9.2	PQL	ug/Kg	
SL-089-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.46	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	FLUORENE	J	0.96	1.9	PQL	ug/Kg	
SL-117-SA6-SB-2.0-3.0	ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-179-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	3.5	8.6	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	4.6	8.6	PQL	ug/Kg	
	CHRYSENE	J	4.9	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	5.3	8.6	PQL	ug/Kg	
	PYRENE	J	5.5	8.6	PQL	ug/Kg	
SL-179-SA5DN-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	

LDC #: 26407H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11

SDG #: DE210 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: MG

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	D
VIII.	Laboratory Control Samples (LCS)	~~A~~	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=13

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-009-SA6-SS-0.0-0.5	11	SL-179-SA5DN-SB-4.0-5.0	21		31	
2	SL-017-SA6-SS-0.0-0.5	12	SL-179-SA5DN-SB-9.0-10.0	22		32	
3	SL-028-SA6-SS-0.0-0.5	13	EB-SA6-SB-072711	23		33	
4	DUP09-SA6-QC-072711	14	SL-009-SA6-SS-0.0-0.5MS	24		34	
5	SL-069-SA6-SB-4.0-5.0	15	SL-009-SA6-SS-0.0-0.5MSD	25		35	
6	SL-069-SA6-SB-9.0-10.0	16	SL-009-SA6-SS-0.0-0.5DUP	26		36	
7	SL-076-SA6-SB-2.0-3.0	17		27		37	
8	SL-089-SA6-SB-4.0-5.0	18		28		38	
9	SL-089-SA6-SB-9.0-10.0	19		29		39	
10	SL-117-SA6-SB-2.0-3.0	20		30		40	

Notes: _____

LDC #: 26407H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: AC
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 3-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Quals													
Sn	1.8	0.9														

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1-7, 9-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	12													
Hg	0.019	0.01	0.0085													

Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All Water

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	13													
Hg	0.097	0.485	0.029													
Zr	6.7	33.5	4.9													

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26407H4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: AR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/27/11 Soil factor applied 100x (Hg: 167x)
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification												
	13	Action Level	1	2	3	4	5	8	11	12				
B	3.5	1.75												
Na	295	147.5	94.4	124	110	98.5			108					
Zr	4.9	2.45												
Sr	0.26	0.13												
Hg	0.029	0.024215					0.020	0.019		0.0085				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

>4X

Background Lab Sample ID: 6358381BKG Matrix Spike Lab Sample ID: 6358382MS Matrix Spike Duplicate Lab Sample ID: 6358383MSD
% Solids for Sample: 97.3
Batch Id(s): P21408D, P21426A, P21411B

Sb: J/UJ/A (PS=88%)

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 -		12073.9023		13168.2944		12807.2172		199.5630	199.5630	MG/KG	548		367		3			20	P
Antimony	121	0.1233	B	0.4607		0.4591		1.1859	1.1746	MG/KG	28	N	29	N	0		75 - 125	20	MS
Arsenic	75	3.1248		5.0360		5.0663		1.9764	1.9576	MG/KG	97		99		1		75 - 125	20	MS
Barium -	137	97.3990		101.0752		126.4229		9.8822	9.7881	MG/KG	37		297		22	*		20	MS
Beryllium	9	0.4194		1.1621		1.1278		0.7906	0.7830	MG/KG	94		90		3		75 - 125	20	MS
Boron		6.2133		200.7045		198.0992		199.5630	199.5630	MG/KG	97		96		1		84 - 115	20	P
Cadmium	111	0.6135		1.6665		1.6276		0.9882	0.9788	MG/KG	107		104		2		75 - 125	20	MS
Calcium -		3494.5570		4265.4427		3818.4177		399.1259	399.1259	MG/KG	193		81		11			20	P
Chromium	52	18.4481		26.9784		26.7606		9.8822	9.7881	MG/KG	86		85		1		75 - 125	20	MS
Cobalt	59	5.0142		53.1663		53.3255		49.4110	48.9404	MG/KG	97		99		0		75 - 125	20	MS
Copper	63	12.2164		22.7291		23.7067		9.8822	9.7881	MG/KG	106		117		4		75 - 125	20	MS
Iron -		18429.1107		16819.9922		16804.3106		99.7815	99.7815	MG/KG	-1613		-1628		0			20	P
Lead -	208	27.2946		34.1331		28.1897		2.9647	2.9364	MG/KG	231		30		19			20	MS
Lithium		20.9162		117.5037		117.4039		99.7815	99.7815	MG/KG	97		97		0		82 - 114	20	P
Magnesium		4009.8308		4095.5497		3872.3316		199.5630	199.5630	MG/KG	43		-69		6			20	P
Manganese		297.8977		293.7377		281.1692		49.8907	49.8907	MG/KG	-8		-34		4			20	P
Mercury		0.0573	B	0.2334		0.2492		0.1679	0.1673	MG/KG	105		115		7		65 - 135	20	CV
Molybdenum	98	0.5759		10.5562		10.4478		9.8822	9.7881	MG/KG	101		101		1		75 - 125	20	MS
Nickel	60	13.7027		23.3220		26.0950		9.8822	9.7881	MG/KG	97		127	N	11		75 - 125	20	MS
Phosphorus -		463.7021		522.3730		493.7966		99.7815	99.7815	MG/KG	59		30		6			20	P
Potassium		3298.9427		4143.2792		3992.5773		997.8148	997.8148	MG/KG	85		70	N	4		75 - 125	20	P
Selenium	78	0.1129	B	2.1444		2.0379		1.9764	1.9576	MG/KG	103		98		5		75 - 125	20	MS
Silver	107	0.5131		10.9119		10.4047		9.8822	9.7881	MG/KG	105		101		5		75 - 125	20	MS
Sodium		94.4237	B	1048.7642		1050.2849		997.8148	997.8148	MG/KG	96		96		0		75 - 125	20	P
Strontium		18.9208		118.8427		115.2227		99.7815	99.7815	MG/KG	100		97		3		75 - 115	20	P
Thallium	203	0.2223		0.5771		0.6012		0.3953	0.3915	MG/KG	90		97		4		75 - 125	20	MS
Tin		3.0212	B	357.4372		375.4238		399.1259	399.1259	MG/KG	89		93		5		80 - 110	20	P
Titanium -		1030.6045		1149.4587		1092.3348		99.7815	99.7815	MG/KG	119		62		5			20	P
Vanadium	51	29.9628		37.7698		40.4052		9.8822	9.7881	MG/KG	79		107		7		75 - 125	20	MS
Zinc -	66	115.2463		123.4683		116.6349		9.8822	9.7881	MG/KG	83		14		6			20	MS
Zirconium		3.3112	B	95.9948		97.5653		99.7815	99.7815	MG/KG	93		94		2		75 - 125	20	P

BRDout

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

<57

Background Lab Sample ID: 6358381BKG
% Solids for Duplicate: 97.2
Batch ID(s): P21408D, P21426A, P21411B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6358384DUP
% Solids for Sample: 97.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12073.9023		11672.4583		3		P
Antimony	121		0.1233	B	0.1137	B	8		MS
Arsenic	75		3.1248		3.0380		3		MS
Barium	137		97.3990		83.3094		16		MS
Beryllium	9	0.1	0.4194		0.3881		8		MS
Boron		5.1	6.2133		6.1856		0		P
Cadmium	111		0.6135		0.5490		11		MS
Calcium			3494.5570		3655.0068		4		P
Chromium	52		18.4481		16.7626		10		MS
Cobalt	59		5.0142		4.4152		13		MS
Copper	63		12.2164		15.8972		26	*	MS
Iron			18429.1107		17322.6125		6		P
Lead	208		27.2946		2990.7503		196	*	MS
Lithium			20.9162		19.7872		6		P
Magnesium			4009.8308		3940.0339		2		P
Manganese			297.8977		257.0572		15		P
Mercury			0.0573	B	0.0636	B	10		CV
Molybdenum	98		0.5759		0.6960		19		MS
Nickel	60		13.7027		12.0822		13		MS
Phosphorus			463.7021		463.3869		0		P
Potassium			3298.9427		3179.7836		4		P
Selenium	78		0.1129	B	0.0966	B	16		MS
Silver	107		0.5131		0.6524		24	*	MS
Sodium			94.4237	B	86.5163	B	9		P
Strontium			18.9208		20.7908		9		P
Thallium	203	0.1	0.2223		0.1877		17		MS
Tin			3.0212	B	3.1326	B	4		P
Titanium			1030.6045		957.9731		7		P
Vanadium	51		29.9628		26.4748		12		MS
Zinc	66		115.2463		113.7718		1		MS
Zirconium			3.3112	B	3.1568	B	5		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE210 5719

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6358381BKG Serial Dilution Lab Sample ID: 6358381L
Batch ID(s): P21408D, P21426A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		118653.8600		121007.1000		2		P
Antimony	121	0.6237	B	1.8500	U	100		MS
Arsenic	75	15.8100		15.6000		1		MS
Barium	137	492.8000		496.8500		1		MS
Beryllium	9	2.1220		2.2560	B	6		MS
Boron		61.0600		78.6000	B	29		P
Cadmium	111	3.1040		2.9760		4		MS
Calcium		34342.0600		35624.9500		4		P
Chromium	52	93.3400		105.5500		13	E	MS
Cobalt	59	25.3700		25.9900		2		MS
Copper	63	61.8100		63.5500		3		MS
Iron		181108.4000		182678.3000		1		P
Lead	208	138.1000		139.7000		1		MS
Lithium		205.5500		228.0500		11		P
Magnesium		39405.8100		40779.5500		3		P
Manganese		2927.5300		2991.0000		2		P
Molybdenum	98	2.9140		3.1365		8		MS
Nickel	60	69.3300		69.7500		1		MS
Phosphorus		4556.9400		4458.1500		2		P
Potassium		32419.7000		32744.6000		1		P
Selenium	78	0.5710	B	1.4500	U	100		MS
Silver	107	2.5960		2.5205		3		MS
Sodium		927.9300	B	941.3000	B	1		P
Strontium		185.9400		186.7500		0		P
Thallium	203	1.1250		0.9660	B	14		MS
Tin		29.6900	B	35.9000	B	21		P
Titanium		10128.0600		10518.5000		4		P
Vanadium	51	151.6000		172.4500		14	E	MS
Zinc	66	583.1000		596.0000		2		MS
Zirconium		32.5400	B	50.0000	B	54		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS: DE210 5723
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE211

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3050B	6010B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3050B	6020	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3060A	7199	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8015B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8015M	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8082	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8270C	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8270C SIM	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	5035	8015M	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	300.0	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	314.0	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	6850	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	7471A	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	8015B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3050B	6010B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3050B	6020	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3060A	7199	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8015B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8082	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8270C	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8270C SIM	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	5035	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	300.0	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	7471A	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	8015B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	8015M	III
28-Jul-2011	TB-072811	6359570	TB	5030B	8015M	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	7471A	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	7471A	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	7471A	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3050B	6010B	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3050B	6020	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3060A	7199	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8082	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8270C	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8270C SIM	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	300.0	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	314.0	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3050B	6010B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3050B	6020	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3060A	7199	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8015B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8015M	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8082	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8270C	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8270C SIM	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	5035	8015M	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	300.0	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	314.0	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	8015B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	8015M	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	6850	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	7471A	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3050B	6010B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3050B	6020	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3060A	7199	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8015B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8015M	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8082	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8270C	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8270C SIM	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	5035	8015M	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	300.0	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	314.0	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	7471A	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	8015B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3050B	6010B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3050B	6020	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8015B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8082	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8270C	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8270C SIM	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	5035	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	300.0	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	314.0	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	8015B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	8015M	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3050B	6010B	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3050B	6020	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3060A	7199	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8082	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8270C	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8270C SIM	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	300.0	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	314.0	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	7471A	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3050B	6010B	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3050B	6020	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3060A	7199	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8082	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8270C	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	300.0	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	314.0	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 **Collected:** 7/28/2011 10:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.9		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	U	0.90	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 10:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-090-SA6-SB-3.0-4.0 **Collected:** 7/28/2011 11:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-172-SA5DN-SB-9.0-10.0 **Collected:** 7/28/2011 12:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.95	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory:** LL

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.8		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.64	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
POTASSIUM	3830		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.57	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3040		12.1	MDL	53.7	PQL	mg/Kg	J	Q

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.622	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
TIN	1.81	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.67	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.72	J	0.387	MDL	5.38	PQL	mg/Kg	U	B
POTASSIUM	3430		12.1	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.07	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-068-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 7:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.64	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 ***Collected:*** 7/28/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3250		13.0	MDL	57.7	PQL	mg/Kg	J	Q
TIN	2.36	J	0.369	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.531	MDL	5.77	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.09	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
POTASSIUM	4840		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.04	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.509	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1500		12.3	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.42	J	0.347	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.499	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.65	J	0.384	MDL	5.33	PQL	mg/Kg	U	B
POTASSIUM	4630		12.1	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.66	J	0.341	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.51	J	0.426	MDL	5.91	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2980		13.4	MDL	59.1	PQL	mg/Kg	J	Q
TIN	2.21	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	5.58	J	0.544	MDL	5.91	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.10	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
POTASSIUM	3800		12.2	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.68	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.18	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
POTASSIUM	2410		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.63	J	0.363	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.06	J	0.522	MDL	5.68	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.116	J	0.0804	MDL	0.217	PQL	mg/Kg	J	Z, Q
CHROMIUM	30.7		0.130	MDL	0.435	PQL	mg/Kg	J	A
SILVER	0.0493	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	59.4		0.0239	MDL	0.109	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0623	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0795	MDL	0.215	PQL	mg/Kg	J	Z, Q
CHROMIUM	14.1		0.129	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0318	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0930	J	0.0611	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0780	U	0.0780	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	16.8		0.126	MDL	0.422	PQL	mg/Kg	J	A
SILVER	0.0198	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	39.5		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0846	MDL	0.229	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.2		0.137	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0354	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	33.5		0.0252	MDL	0.114	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory:** LL

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0824	J	0.0820	MDL	0.221	PQL	mg/Kg	J	Z, Q
CHROMIUM	23.3		0.133	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0215	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	48.7		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0819	U	0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q
CHROMIUM	17.7		0.133	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0223	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	46.0		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0812	MDL	0.220	PQL	mg/Kg	J	Z, Q
CHROMIUM	26.0		0.132	MDL	0.439	PQL	mg/Kg	J	A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.9		0.0242	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0686	MDL	0.473	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0875	MDL	0.236	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.8		0.142	MDL	0.473	PQL	mg/Kg	J	A
SILVER	0.0470	J	0.0168	MDL	0.118	PQL	mg/Kg	J	Z
VANADIUM	49.7		0.0260	MDL	0.118	PQL	mg/Kg	J	A

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0791	MDL	0.214	PQL	mg/Kg	J	Z, Q
CHROMIUM	31.9		0.128	MDL	0.428	PQL	mg/Kg	J	A
SILVER	0.0438	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	62.0		0.0235	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0798	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0991	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0663	J	0.0500	MDL	0.114	PQL	mg/Kg	J	Z
CHROMIUM	26.0		0.136	MDL	0.454	PQL	mg/Kg	J	A
SILVER	0.0536	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0250	MDL	0.114	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 ***Collected:*** 7/28/2011 10:19:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-19.0-20.0 ***Collected:*** 7/28/2011 7:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 7:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 ***Collected:*** 7/28/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.25	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory:** LL

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 10:11:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 **Collected:** 7/28/2011 10:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 **Collected:** 7/28/2011 10:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0366	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 10:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0127	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0159	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 **Collected:** 7/28/2011 12:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0114	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0120	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0157	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.66	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 12:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	29	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	75	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	61	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	89	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	28	J	19	MDL	190	PQL	ug/Kg	J	Z
CHRYSENE	80	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	47	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	80	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	50	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	58	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	73	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	55	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	36	J	20	MDL	200	PQL	ug/Kg	J	Z
CHRYSENE	60	J	20	MDL	200	PQL	ug/Kg	J	Z
FLUORANTHENE	59	J	20	MDL	200	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	37	J	20	MDL	200	PQL	ug/Kg	J	Z
PYRENE	58	J	20	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 10:11:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	37	U	37	MDL	190	PQL	ug/Kg	R	Q
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	19	MDL	380	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.8	J	0.37	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.98	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.43	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.9	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.7	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory:** LL

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.93	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.78	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	7.1	MDL	21	PQL	ug/Kg	J	Z
FLUORENE	1.8	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:11:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-183-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 10:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.44	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE211 **Laboratory: LL**

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE211