TASK 210:
SUBSURFACE SITE INVESTIGATION

REPLACEMENT OF BRIDGE # 01379
ROUTE 150 (CENTER STREET) OVER WHARTON BROOK
WALLINGFORD, CONNECTICUT

CT DOT Assignment No. 404-4643
CT DOT Project No. 148-201
HRP # CTD3002.21

PREPARED FOR:

State of Connecticut
Department of Transportation
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1.0 INTRODUCTION

On behalf of the Connecticut Department of Transportation (CT DOT), HRP Associates, Inc. (HRP) has completed a Task 210 (Subsurface Site Investigation) in association with the planned replacement of Bridge # 01379, located along Route 150 (Center Street) in Wallingford, Connecticut. The bridge spans Wharton Brook and is positioned between the cross streets of Hoffman Court and Gianotti Court. The site location is shown topographically on Figure 1.

The purpose of the Task 210 was to verify the presence or absence of contamination in subsurface soils that will be disrupted during the course of construction activities as well as the location and magnitude of any contaminated soil found. The Task 210 also helped determine whether impacted groundwater would be encountered within the construction zone. These investigation results were used to assess what subsurface media would require special handling and/or disposal practices.

All field investigation and sampling methods were conducted as specified in the Task 210 Subsurface Site Investigation Work Plan finalized on August 13, 2013.

2.0 SITE DESCRIPTION AND HISTORY

The site incorporates Bridge# 01379 along with the immediately adjacent embankments along Wharton Brook and both directions of the Center Street roadway extending to the defined project limits. The project limits are illustrated on Figure 2.

A Task 110 Corridor Land Use Evaluation was performed in September 2003 by TRC as part of the bridge reconstruction planning process. The study characterized two (2) parcels (530 and 570 Center Street) as “high risk” based on environmental concerns from either historical or current site usage. Historical investigative data related to the two “high risk” parcels was unavailable.

The proximity of these “high risk” parcels to the planned construction area and the potential for soil and/or groundwater contamination to exist on and migrate from the parcel boundaries into the planned construction area were the primary basis for this Task 210. The potential of upstream contamination to be transported and deposited into sediments along Wharton Brook within the project limits is also of concern.

3.0 LOCAL ENVIRONMENT AND RECEPTORS

3.1 Geology

The site and surrounding area are mapped as thin glacial till. Thin till is described as well-sorted, heavily-compacted rock particles of all sizes that were deposited during glacial retreat (Surficial Materials Map of Connecticut by Stone, Schafer, London and Thompson, 1992).

Bedrock beneath the subject area is mapped as New Haven Arkose. New Haven Arkose is described as a reddish, poorly-sorted arkose/feldspar-rich sandstone (Bedrock Geological Map of Connecticut by John Rodgers, 1985).

Bedrock outcrops are not evident within the project limits. General depth refusal encountered during drilling activities for this Task 210 ranged from approximately 7.5 to 15 feet below the roadway surface grade.

3.2 Hydrogeology

The groundwater classification of the site is “GA”. A “GA” groundwater classification is defined as follows:

> *“Groundwater within the area of existing private water supply wells or an area with the potential to provide water to public or private supply wells. The Department presumes that groundwater in such an area is, at a minimum, suitable for drinking or other domestic uses without treatment.”*

The surface water classification for Wharton Brook is “A”. Class “A” surface water bodies are described as follows:

> *“Class A designated uses are habitat for fish and other aquatic life and wildlife; potential drinking water supplies; recreation; navigation; and water supply for industry and agriculture.”*

4.0 PRELIMINARY ACTIVITIES

4.1 Health and Safety Plan (HASP) Preparation

HRP developed a project-specific health and Safety Plan (HASP) for the Task 210 and included a copy as an attachment to the Work Plan when submitted. The HASP addresses the health and safety practices employed by all HRP staff and subcontractors participating in the installation of soil borings, monitoring wells, and/or soil vapor points at the site. The HASP was developed in accordance with HRP's Corporate Safety and Health Program as required under OSHA's Hazardous Waste Operations Standard (29 CFR 1910.120). The HASP was developed to establish minimum standards for project oversight and environmental sampling activities to protect the health and safety of HRP personnel and HRP's subcontractors. All HRP site personnel have received the required level of training and field experience as required under subpart (e) of the Standard, and have received medical examinations in accordance with HRP's medical surveillance program as required under subpart (f) of the Standard. All HRP personnel and subcontractors were required to review and sign the HASP prior to field work commencement.

4.2 Sample Location Marking and Utility Clearance

Prior to the commencement of drilling activities, HRP marked all proposed soil boring locations in the field then contacted Connecticut Call Before You Dig Services (CBYD) to arrange for a mark-out of public utility lines. The CBYD # assigned for the project was 2013-3400-372. As an additional precaution, CorBuilt LLC, of Canterbury, Connecticut was contracted to clear proposed soil boring locations using ground penetrating radar and electromagnetic induction technologies. Each boring location was approved prior to its installation.

5.0 SOIL INVESTIGATION METHODS

5.1 Field Screening

Visual Screening
Soil samples collected as part of this investigation were visually inspected for evidence of contamination (i.e., color, odor, etc.). Any staining or unusual odors observed from the samples were recorded on the appropriate boring log. Copies of drilling logs are included as Appendix A.

Photo-ionization Detector (PID)
Soil samples were also field-screened for Volatile Organic Compounds (VOCs) using a PID in accordance with HRP Standard Operating Procedures (SOPs). A small portion of each sample was placed into a sealable plastic bag and allowed to equilibrate with the surrounding temperature. The bag's headspace was then screened and the results were recorded on the associated boring log.

5.2 Geoprobe® Soil Boring Installation and Sample Collection

A total of twelve (12) Geoprobe® soil borings (GP-1 to GP-12) were installed on August 22, 2013. The drilling work was performed by Complete Excavating Services LLC of Bethany, Connecticut (CES) under HRP supervision using a Geoprobe® 7730DT track-mounted direct-push drill rig. Soil borings were completed by advancing a five-foot long stainless steel Macro-Core® sampling tube equipped with disposable acetate liners. Final depths ranged from approximately 7.5 to 15 feet below grade (fbg).

Soil intervals were collected in a continuous fashion from each boring and were visually inspected for evidence of contamination and screened with a PID. Soil descriptions, PID readings, perceived depth to groundwater (if encountered), lab sample intervals, and any other relevant observations were recorded on the soil boring logs.

Laboratory submittal samples were chosen based on field observations and anticipated construction project disturbance depths. Soil samples were placed in laboratory-provided and preserved glassware, stored on ice in coolers, and submitted under proper chain-of-custody to Spectrum Analytical, Inc. of Agawam, Massachusetts (Spectrum), a CT-certified laboratory, for analysis of some/all of the following:

- VOCs via United States Environmental Protection Agency (EPA) method 8260B, 5035 preservation method
- Polycyclic aromatic hydrocarbons (PAHs) via EPA method 8270C
- Extractable total petroleum hydrocarbons (ETPH) via CT-ETPH methodology

- Resource Conservation Recovery Act (RCRA)-8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) via EPA-approved methods of mass and Synthetic Precipitate Leaching Procedure (SPLP) analysis
- Poly-chlorinated biphenyls (PCBs) via EPA method 8082

Sampling equipment was decontaminated between sampling locations in accordance with HRP SOPs.

5.3 Manual Soil Boring Installation and Sample Collection

Four (4) additional soil borings (SED-1 to SED-4) were installed manually where a 2-foot stainless steel Macro-Core® sampling tube (acetate liner-equipped) was advanced with a steel slam-bar into the stream bank sediments. Soil samples were collected until refusal was encountered (approximately 1 to 2 fbg). Soil boring logs, decontamination procedures, sample handling, and laboratory parameter selection were all addressed in similar fashion to those referenced in Section 5.2.

5.4 Waste Characterization Sample Collection

Two (2) composite soil samples (WCS-1, WCS-2) were generated from the soil boring group. Boring location and soil depth intervals were selected based upon any noticeable contaminant characteristics as well as incorporating those depth intervals most likely to be disrupted during construction activities. Collection of this data facilitates and expedites the waste profiling process, if deemed necessary.

Waste characterization samples were handled in similar fashion as described above and submitted for the following analyses:

- VOCs via EPA method 8260B
- Semi-volatile organic compounds (SVOCs) via EPA method 8270C
- ETPH via CT-ETPH methodology
- RCRA-8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) via EPA-approved mass and Toxicity Characteristic Leaching Procedure (TCLP) analysis methods
- PCBs via EPA method 8082
- pH
- Flashpoint
- Reactivity (Sulfide & Cyanide)
- Specific Conductance

6.0 GROUNDWATER INVESTIGATION METHODS

6.1 Temporary Monitoring Well Installation

A total of three (3) temporary groundwater monitoring wells (MW-1 to MW-3) were installed in select completed soil borings (GP-4, GP-8, and GP-11, respectively) to assess groundwater conditions in the general area of the project limits.

The temporary monitoring wells were installed under HRP supervision by CES in conjunction with the soil boring installation on August 22, 2013. Monitoring wells were installed using ½-inch ID poly-vinyl chloride well screen/riser into the open borehole at the referenced locations. Well completion depths ranged from approximately 10-15 fbg. Temporary monitoring well locations are identified on Figure 2.

6.2 Temporary Monitoring Well Sampling

Groundwater sampling occurred after allowing approximately 30-60 minutes for water to recharge into the boreholes. Each monitoring well was sampled using grab-sample techniques employing a peristaltic pump and dedicated plastic tubing. Groundwater was initially purged to reduce entrained sediment prior to sample collection and a 10-micron field-filter was used on samples for RCRA metals analysis.

Groundwater samples were placed in laboratory-provided and preserved glassware, stored on ice in coolers, and submitted under proper chain-of-custody to a CT-certified laboratory for analysis of some/all of the following:

- VOCs via EPA method 8260B
- PAHs via EPA method 8270C
- ETPH via CT-ETPH methodology
- RCRA-8 metals via EPA-approved mass analysis methods

.

7.0 LABORATORY DATA RESULTS

7.1 Regulatory Criteria

Analytical results for soil and groundwater obtained during this investigation were compared to the Connecticut Department of Energy and Environmental Protection (CT DEEP) Remediation Standard Regulations (RSRs). The RSRs (Regulations of Connecticut State Agencies, Section 22a-133k-1 to 3 and 22a-113q-1) were developed (adopted January 1996, amended 2013) with the purpose to define minimum remediation performance standards, specific numeric cleanup criteria, and a process for establishing an alternative site-specific numerical standards for certain sites, upon approval by the CT DEEP. The Remediation Standard Regulations apply to any site undergoing voluntary remediation under Public Acts 95-183 or 95-190, a transfer of an "establishment" under Public Act 95-183, or any site as ordered by the CT DEEP Commissioner.

Although the site is not an "establishment" nor is it associated with the CT DEEP Voluntary Remediation program, CT DEEP RSR numeric criteria were used in evaluation of environmental data for comparative purposes in order to determine proper soil management procedures. The applicable RSR standards based on general site location are as follows:

Soil

- Residential Direct Exposure Criteria (RDEC)
- Industrial/Commercial Direct Exposure Criteria (I/C DEC)
- GA Pollutant Mobility Criteria (GA PMC)

Groundwater

- Groundwater Protection Criteria (GWPC)
- Surface water Protection Criteria (SWPC)
- Residential Groundwater Volatilization Criteria (RGWVC)
- Industrial/Commercial Groundwater Volatilization Criteria (I/CGWVC)

7.2 Data Evaluation

7.2.1 Soil and Sediment Sample Analytical Results

Data from soil and sediment samples collected during the Task 210 investigation are presented in Table 1. The following contaminants of concern were identified via lab analysis:

VOCs

There were two minor detections of VOCs in the soil and sediment sample group. Acetone was detected in GP-7 (8-10') and naphthalene was detected in GP-11 (1.5-3.5') at concentrations of 45.7 and 8.1 micrograms per kilogram (ug/Kg), respectively. Both detections are only

slightly above laboratory detection limits and well below applicable RSR standards.

PAHs

PAH concentrations were detected in exceedance of applicable RSR numeric standards in GP-3 (1.5-3.5'), GP-10 (2-4'), GP-11 (1.5-3.5'), GP-12 (2-4') and SED-3 (1-2') and SED-4 (0-1'). Minor concentrations of PAHs were detected below RSR standards in GP-2 (1.5-3.5'), GP-7 (8-10'), and sediment samples SED-1 (0.5-1.5') and SED-2 (0.5-1.5').

ETPH

ETPH concentrations were detected in exceedance of applicable RSR numeric standards in GP-12 (2-4') and SED-3 (1-2'). Minor concentrations of ETPH were detected below RSR standards in GP-2 (1.5-3.5'), GP-3 (1.5-3.5'), GP-10 (2-4'), GP-11 (1.5-3.5'), and SED-1 (0.5-1.5'), SED-2 (0.5-1.5'), and SED-4 (0-1').

RCRA-8 Metals

Total lead concentrations were detected in exceedance of applicable RSR numeric standards in SED-2 (0.5-1.5') and SED-3 (1-2'). Leachable lead concentrations were detected in exceedance of applicable RSR numeric standards in GP-2 (1.5-3.5'), GP-3 (1.5-3.5'), GP-4 (5-7'), GP-12 (2-4'), and SED-1 (0.5-1.5'), SED-2 (0.5-1.5') and SED-3 (1-2').

Additionally, other total RCRA-8 metals were detected in all of the soil and sediment samples; however, those concentrations were all well below RSR standards. Minor detections of leachable barium were detected in several samples along with leachable mercury in SED-2 and SED-3. No additional leachable metals were detected above laboratory detection limits.

PCBs

A minor concentration of PCBs was detected below RSR standards in sediment sample SED-1 (0.5-1.5'). No other PCB detections were reported in the full sample group.

7.2.2 Groundwater Sample Analytical Results

Data from groundwater samples collected from the temporary monitoring wells are presented in Table 2. The following contaminants of concern were identified via lab analysis:

VOCs

Minor concentrations of several gasoline-range VOCs were detected in MW-3 at concentrations exceeding applicable RSR standards. VOCs were not detected in MW-1 or MW-2 above laboratory detection limits.

PAHs

PAHs were detected in MW-2 and MW-3 at concentrations exceeding applicable RSR standards. PAHs were not analyzed in MW-1.

ETPH

ETPH was detected in MW-3 at concentrations exceeding applicable RSR standards. ETPH was not reported in MW-1 or MW-2 above laboratory detection limits.

RCRA-8 Metals

Several RCRA-8 metals were detected in MW-3 at concentrations exceeding applicable RSR standards. Minor detections of barium were detected in MW-1 and MW-2. No other RCRA-8 metals were detected in above laboratory detection limits in MW-1 and MW-2.

7.2.3 Waste Characterization Sample Analytical Results

Data from waste characterization samples composited during the 210 investigation are presented in Table 1. The following is a brief summary of waste characterization data to be used in profiling impacted soil for disposal:

- VOCs and PCBs were not detected in either WCS-1 or WCS-2;
- Multiple total RCRA-8 metals were detected in both samples with all concentrations below RSR standards;
- A minor concentration of TCLP barium was noted in both samples, well below hazardous waste thresholds. No other TCLP RCRA-8 metals were detected in either sample;
- A minor concentration of ETPH was noted in WCS-2, below RSR standards; and
- pH, flashpoint, reactivity, and specific conductance were reported at non-concerning levels for both samples.

As seen from the information above, neither sample exhibited significant characteristics that create an issue with profiling material into a CT DOT-approved disposal facility. The laboratory analysis results are also presented in Table 1 and the laboratory analytical report is provided in Appendix B.

7.2.4 Quality Assurance/Quality Control (QA/QC)

Quality assurance and quality control (QA/QC) samples were collected during sampling activities to assess potential data interference from storage techniques as well as the effectiveness of practiced

decontamination procedures. One (1) trip blank sample (TB-1) and one (1) equipment blank sample (EB-1) were used for QA/QC purposes. The trip blank was used to assess proper handling/storage techniques while the equipment blank was used to ensure decontamination effectiveness, glassware quality, de-ionized water quality, and laboratory sample handling/analytical procedures. The equipment blank was analyzed for the same parameters as the submitted soil samples and the trip blank sample was analyzed for VOCs. All sampling equipment was either dedicated to a specific sample or decontaminated between each use.

The trip blank was prepared prior to job commencement and the equipment blank sample was collected in the field by pouring laboratory-supplied de-ionized water through field sampling equipment (i.e., Macro-Core® sampling tube/acetate liner) and bottling the rinseate in appropriate containers. The trip and equipment blanks were stored with the daily samples until subsequent delivery to the laboratory.

All samples collected in the field were handled in a manner that preserved the integrity of their chemistry and placed in an ice-filled cooler immediately following collection until delivery to the laboratory. Chain-of-Custody (COC) forms were completed and accompanied the sample group as a legal record of possession. HRP requested all analyses to be performed under the Connecticut Reasonable Confidence Protocols (RCP). The RCP are established protocols that analytical laboratories must follow to assure acceptable data quality. The laboratory analysis results for QA/QC samples are included in Table 2.

QA/QC Results

No contaminants of concern were detected in either TB-1 or EB-1 thus indicating proper sampling handling techniques were employed. Additionally, HRP reviewed the data results and QA/QC documentation including the lab report case narratives. HRP did not note any issues or discrepancies and determined that the data results are suitable for their intended purpose. According to the *Laboratory Analysis QA/QC Certification Form,* Question #1 (For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed?) was answered “Yes” on all of the reports. The affirmative response indicates that the laboratory’s QA Director certifies the report’s conformance with RCP requirements.

8.0 CONCLUSIONS

HRP completed a Task 210 (Subsurface Site Investigation) on behalf of the CT DOT in association with DOT Project No. 204-251, Replacement of Bridge # 01379 over Wharton Brook in Wallingford, CT. The investigation focused on soils beneath the roadbed and along the Wharton Brook channel within the planned construction limits. Based on the data presented in this report, HRP has made the following conclusions:

- Shallow soils (0-4') beneath and along Center Street were found to contain leachable lead in exceedance of RSR numeric criteria, on both the eastern and western sides of Wharton Brook. Several PAH detections and one arsenic detection exceeding RSR standards were also identified in shallow soils within the construction limits. These materials should be managed accordingly via proper handling during disruption activities and surplus soils should be transported to an approved disposal facility if reuse within the project limits proves unfeasible.

- Mid-depth soils (8-10 fbg) near the embankment showing SED-4 also contained leachable lead above RSR standards. These soils should be managed properly via the above-described methods.

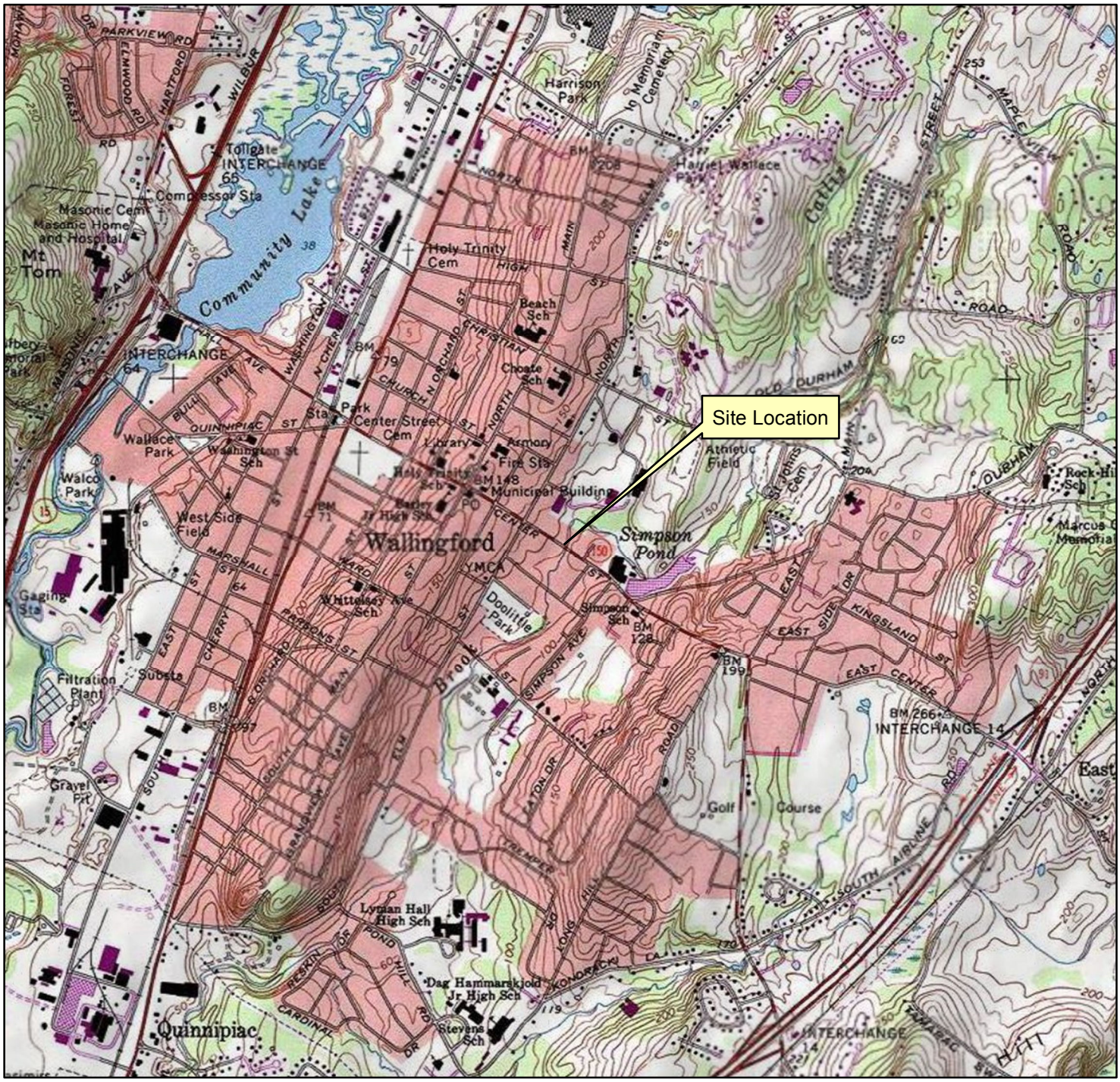
- Sediments along the Wharton Brook stream channel contain RSR-exceeding concentrations of PAHs, ETPH, lead (total and SPLP), along with one sample containing a low-level detection of PCBs. Based on this information, all stream bank sediments should be considered an Area of Environmental Concern (AOEC) and managed accordingly. Sediments displace during bridge construction activities should be stockpiled, or otherwise containerized, for transportation and proper disposal.

- Groundwater along the eastern side of Wharton Brook (MW-2 and MW-3) exhibited RSR-exceeding concentrations of PAHs, ETPH, and RCRA-8 metals as well as low-level VOCs. This contamination is likely attributable to the petroleum distribution station located at 570 Center Street. If groundwater is encountered as part of disruption activities on the eastern side of Wharton Brook and requires displacement, proper treatment techniques should be employed before discharge.

- Groundwater along the western side of Wharton Brook (MW-1) did not display any evidence that would mandate special handling/treatment if encountered.

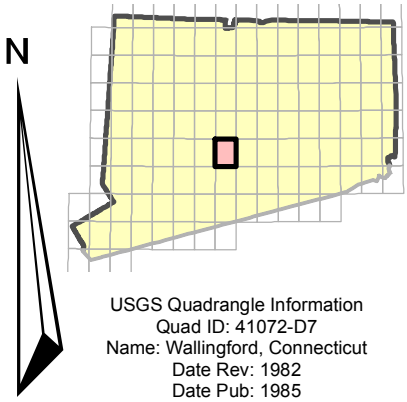
- Waste characterization samples did not contain any characteristics that would preclude waste soils/sediments from acceptance into an approved disposal facility.

FIGURES



0 1,000 2,000 4,000 6,000 8,000 Feet

1 inch = 2,000 feet



USGS Quadrangle Information
Quad ID: 41072-D7
Name: Wallingford, Connecticut
Date Rev: 1982
Date Pub: 1985

Figure 1
Site Location
Connecticut Department of Transportation
Replacement of Bridge Number 01379
Route 150 Over Wharton Brook
HRP# CTD3002.21
Scale 1" = 2,000'

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BEGIN FEDERAL AID PROJECT
NO. XXXX(XXX)
STATE PROJECT NO. 148-201
FAP NO. XXXX
LIMIT OF FULL DEPTH
RECONSTRUCTION
STA. 10+26.74
N 225490.78
E 582396.11

END FEDERAL AID PROJECT
NO. XXXX(XXX)
STATE PROJECT NO. 148-201
FAP NO. XXXX
LIMIT OF FULL DEPTH
RECONSTRUCTION
STA. 14+06.20
N 225290.12
E 582717.90

PAHs (Shallow)
SPLP Pb (Mid)
PAHs, SPLP Pb (Shallow)
ETPH, PAHs, Total and SPLP Pb (Shallow)
PAHs (Shallow); PAHs, ETPH, RCRA-8 Metals (H2O)
PAHs (H2O)
ETPH, PAHs, SPLP Pb (Shallow)
SPLP Pb (Shallow)
Total and SPLP Pb (Shallow)
SPLP Pb (Shallow)
PAHs, Total As (Shallow)

GP-1 GP-2 GP-3 GP-4/MW-1 GP-5 GP-6 GP-7 GP-8/MW-2 GP-9 GP-10 GP-11/MW-3 GP-12
SED-1 SED-2 SED-3 SED-4

ROUTE 150 (CENTER STREET)
WHARTON BROOK

LEGEND

–HAND BORING LOCATION

–GEOPROBE BORING LOCATION

–SOIL BORING/GROUNDWATER GRAB SAMPLE LOCATION

SPLP Pb (Shallow) –RSR–EXCEEDING CONCENTRATIONS

NOTE:
SHALLOW DEPTHS ARE CONSIDERED FROM 0–4 FEET BELOW GRADE.
MID DEPTHS ARE CONSIDERED FROM 4–8 FEET BELOW GRADE.

1" = 40'

40 0 20 40 80

APPROXIMATE SCALE IN FEET

FIGURE 2
SITE PLAN WITH BORING LOCATIONS
CONNECTICUT DEPARTMENT OF TRANSPORTATION
REPLACEMENT OF BRIDGE NUMBER 01379
ROUTE 150 OVER WHARTON BROOK
WALLINGFORD, CT
HRP# CTD3002.21
SCALE: 1" = 40'

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V:\Data\C\CONND – CONNECTICUT DEPARTMENT OF TRANSPORTATION\Wallingford\BRIDGE 01379, CENTER STR, WALLINGFORD, CT\CTD300221\CAD\Site Plan with Boring Locations.dwg, Layout1, 9/16/2013 1:41:13 PM, Adobe PDF

TABLES

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS

CT DOT - Replacement of Bridge #01379, RoutE 150 (Center Street) over Wharton Brook, Wallingford
DOT Project # 148-201

						Lab Report No.:	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690
						Lab Sample No:	SB75690-01SITE	SB75690-02SITE	SB75690-03SITE	SB75690-04SITE	SB75690-05SITE	SB75690-06SITE	SB75690-07SITE	SB75690-08SITE	SB75690-09SITE	SB75690-10SITE	SB75690-11SITE	SB75690-13SITE	SB75690-14SITE	SB75690-15SITE	SB75690-16SITE	SB75690-21SITE	SB75690-22SITE
							GP-1 (1.5-3.5')	**GP-2 (1.5-3.5')**	**GP-3 (1.5-3.5')**	**GP-4 (5-7')**	**GP-5 (3-5')**	**GP-6 (10-12.5')**	**GP-7 (8-10')**	**GP-9 (5-7')**	**GP-10 (2-4')**	**GP-11 (1.5-3.5')**	**GP-12 (2-4)**	**SED-1 (0.5-1.5)**	**SED-2 (0.5-1.5)**	**SED-3 (1-2')**	**SED-4 (0-1')**	**WCS-1**	**WCS-2**
Sample Depth (ft.)																							
Date Collected							**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**08/22/13**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**
SOIL-Metals			**1996 CT DEEP RSR - Res DEC**	**1996 CT DEEP RSR - I/C DEC**	.	.																	
Arsenic	7440-38-2	mg/kg	10	10			<1.49	1.85	1.66	2.58	<1.66	NA	<1.74	<1.55	**10.1**	1.91	<1.47	1.75	4.20	5.93	<8.37	<1.66	2.41
Barium	7440-39-3	mg/kg	4,700	140,000			20.6	69.2	54.1	58.6	87.3	NA	150	80.5	46.1	52.6	53.9	93.8	65.5	67.4	57.2	38.3	77.2
Cadmium	7440-43-9	mg/kg	34	1,000			<0.498	<0.533	<0.543	<0.621	<0.553	NA	<0.582	<0.515	<0.576	<0.505	<0.489	0.861	1.40	0.960	<2.79	<0.552	<0.545
Chromium, Total	7440-47-3	mg/kg	100	100			3.47	6.50	7.68	7.56	8.65	NA	11.1	7.33	6.81	7.48	7.24	9.67	7.00	6.69	5.58	4.48	11.7
Lead	7439-92-1	mg/kg	400	1,000			2.67	88.4	96.6	139	10.6	NA	13.6	18.9	56.2	109	160	37.8	**442**	**1340**	126	4.85	52.7
Mercury	7439-97-6	mg/kg	20	610			<0.0286	1.13	0.367	0.689	0.0309	NA	0.0985	2.28	0.210	0.226	1.58	0.209	2.86	1.14	<0.348	<0.0350	0.106
Selenium	7782-49-2	mg/kg	340	10,000			<1.49	<1.60	<1.63	<1.86	<1.66	NA	<1.74	<1.55	<1.73	<1.52	<1.47	<1.67	<1.69	<1.57	<8.37	<1.66	<1.64
Silver	7440-22-4	mg/kg	340	10,000			<1.49	<1.60	1.87	5.69	<1.66	NA	<1.74	1.93	<1.73	<1.52	15.5	3.09	39.1	62.2	13.4	<1.66	<1.64
SOIL-Metals-SPLP			.	.	**1996 CT DEEP RSR - GA PMC**	.																	
Arsenic	7440-38-2	mg/l			0.05		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	NA	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	NA	NA
Barium	7440-39-3	mg/l			1		<0.0100	0.0492	0.0388	0.0261	0.0168	NA	0.0139	0.0161	0.0163	0.0231	0.0279	0.0229	0.0112	0.0421	0.0203	NA	NA
Cadmium	7440-43-9	mg/l			0.005		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA
Chromium, Total	7440-47-3	mg/l			0.05		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA
Lead	7439-92-1	mg/l			0.015		<0.0150	**0.0166**	**0.0354**	**0.0202**	<0.0150	NA	<0.0150	<0.0150	<0.0150	<0.0150	**0.163**	**0.0162**	**0.0227**	**0.406**	<0.0150	NA	NA
Mercury	7439-97-6	mg/l			0.002		<0.00020	<0.00020	0.00022	<0.00020	<0.00020	NA	<0.00020	0.00024	<0.00020	<0.00020	0.00026	<0.00020	0.00022	0.00024	<0.00020	NA	NA
Selenium	7782-49-2	mg/l			0.05		<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	NA	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	NA	NA
Silver	7440-22-4	mg/l			0.036		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	NA
SOIL-Metals-TCLP			.	.	**1996 CT DEEP RSR - GA PMC**	**Federal - Hazardous Waste Regulatory Level**																	
Arsenic	7440-38-2	mg/l			0.05	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0080	<0.0080
Barium	7440-39-3	mg/l			1	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.657	0.612
Cadmium	7440-43-9	mg/l			0.005	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0050	<0.0050
Chromium, Total	7440-47-3	mg/l			0.05	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0100	<0.0100
Lead	7439-92-1	mg/l			0.015	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0150	<0.0150
Mercury	7439-97-6	mg/l			0.002	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00020	<0.00020
Selenium	7782-49-2	mg/l			0.05	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0300	<0.0300
Silver	7440-22-4	mg/l			0.036	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0100	<0.0100
SOIL-8270C			**1996 CT DEEP RSR - Res DEC**	**1996 CT DEEP RSR - I/C DEC**	**1996 CT DEEP RSR - GA PMC**	.																	
Benzo(a)anthracene	56-55-3	µg/kg	1,000	7,800	1,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	**1970**
Benzo(a)pyrene	50-32-8	µg/kg	1,000	1,000	1,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	**2060**
Benzo(b)fluoranthene	205-99-2	µg/kg	1,000	7,800	1,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	**1870**
Benzo(ghi)perylene	191-24-2	µg/kg					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	1140
Benzo(k)fluoranthene	207-08-9	µg/kg	8,400	78,000	1,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	**1590**
Chrysene	218-01-9	µg/kg					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	1960
Fluoranthene	206-44-0	µg/kg	1,000,000	2,500,000	5,600		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	3890
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	1300
Phenanthrene	85-01-8	µg/kg	1,000,000	2,500,000	4,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	1230
Pyrene	129-00-0	µg/kg	1,000,000	2,500,000	4,000		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<198	3400
SOIL-8270-PAHs			**1996 CT DEEP RSR - Res DEC**	**1996 CT DEEP RSR - I/C DEC**	**1996 CT DEEP RSR - GA PMC**	.																	
Acenaphthylene	208-96-8	µg/kg	1,000,000	2,500,000	8,400		<180	<179	<381	NA	<183	<194	<201	<197	<1920	<191	(<9490)	<425	<436	(<20200)	<389	NA	NA
Anthracene	120-12-7	µg/kg	1,000,000	2,500,000	40,000		<180	<179	<381	NA	<183	<194	<201	<197	<1920	<191	<9490	<425	<436	36500	<389	NA	NA
Benzo(a)anthracene	56-55-3	µg/kg	1,000	7,800	1,000		<180	313	**1510**	NA	<183	<194	<201	<197	**8000**	952	**18000**	544	824	**57500**	**1080**	NA	NA
Benzo(a)pyrene	50-32-8	µg/kg	1,000	1,000	1,000		<180	389	**1710**	NA	<183	<194	<201	<197	**9620**	**1120**	**16400**	593	860	**53800**	**1030**	NA	NA
Benzo(b)fluoranthene	205-99-2	µg/kg	1,000	7,800	1,000		<180	378	**1830**	NA	<183	<194	<201	<197	**11000**	**1290**	**15700**	572	853	**41700**	**1110**	NA	NA
Benzo(ghi)perylene	191-24-2	µg/kg					<180	205	688	NA	<183	<194	<201	<197	3490	414	<9490	<425	532	29000	618	NA	NA
Benzo(k)fluoranthene	207-08-9	µg/kg	8,400	78,000	1,000		<180	336	**1190**	NA	<183	<194	<201	<197	**5620**	673	**13100**	524	645	**38500**	717	NA	NA
Chrysene	218-01-9	µg/kg					<180	336	1530	NA	<183	<194	<201	<197	8480	908	16000	609	866	46900	1100	NA	NA
Fluoranthene	206-44-0	µg/kg	1,000,000	2,500,000	5,600		<180	575	3480	NA	<183	<194	293	<197	**22600**	1990	**50100**	1380	1770	**162000**	2850	NA	NA
Fluorene	86-73-7	µg/kg	1,000,000	2,500,000	5,600		<180	<179	<381	NA	<183	<194	<201	<197	<1920	<191	(<9490)	<425	<436	(<20200)	<389	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg					<180	233	853	NA	<183	<194	<201	<197	4390	520	<9490	437	601	29400	705	NA	NA
Naphthalene	91-20-3	µg/kg	1,000,000	2,500,000	5,600		<180	<179	<381	NA	<183	<194	<201	<197	<1920	<191	(<9490)	<425	<436	(<20200)	<389	NA	NA
Phenanthrene	85-01-8	µg/kg	1,000,000	2,500,000	4,000		<180	<179	1020	NA	<183	<194	<201	<197	**8370**	558	**39800**	585	720	**131000**	1620	NA	NA
Pyrene	129-00-0	µg/kg	1,000,000	2,500,000	4,000		<180	482	2680	NA	<183	<194	293	<197	**17300**	1550	**35200**	1060	1520	**134000**	2170	NA	NA
SOIL-8260B			**1996 CT DEEP RSR - Res DEC**	**1996 CT DEEP RSR - I/C DEC**	**1996 CT DEEP RSR - GA PMC**	.																	
1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	24,000	220,000	20		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	3,100	29,000	10		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
1,1,2-Trichloroethane	79-00-5	µg/kg	11,000	100,000	100		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	<83.1	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	µg/kg	7	67	10		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
1,2-Dichloroethane	107-06-2	µg/kg	6,700	63,000	20		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
1,2-Dichloropropane	78-87-5	µg/kg	9,000	84,000	100		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	<83.1	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Acetone	67-64-1	µg/kg	500,000	1,000,000	14,000		<45.9	<32.4	<728	<53.9	NA	<51.6	45.7	<831	<46.6	<41.6	NA	<51.2	<1250	<49.3	<47.6	<48.1	<47.5
Acrylonitrile	107-13-1	µg/kg	1,100	11,000	10		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Benzene	71-43-2	µg/kg	21,000	200,000	20		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Bromoform	75-25-2	µg/kg	78,000	720,000	80		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Carbon tetrachloride	56-23-5	µg/kg	4,700	44,000	100		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	<83.1	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Chloroform	67-66-3	µg/kg	100,000	940,000	120		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	<83.1	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Dibromochloromethane	124-48-1	µg/kg	7,300	68,000	10		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Methylene chloride (Dichloromethane)	75-09-2	µg/kg	82,000	760,000	100		<9.2	<6.5	(<146)	<10.8	NA	<10.3	<8.6	(<166)	<9.3	<8.3	NA	<10.2	(<251)	<9.9	<9.5	<9.6	<9.5
Naphthalene	91-20-3	µg/kg	1,000,000	2,500,000	5,600		<4.6	<3.2	<218	<5.4	NA	<5.2	<4.3	<83.1	<4.7	8.1	NA	<5.1	<125	<4.9	<4.8	<4.8	<4.8
Tetrachloroethylene	127-18-4	µg/kg	12,000	110,000	100		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	<83.1	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Trichloroethylene	79-01-6	µg/kg	56,000	520,000	100		<4.6	<3.2	<72.8	<5.4	NA	<5.2	<4.3	<83.1	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8
Vinyl chloride	75-01-4	µg/kg	320	3,000	40		<4.6	<3.2	(<72.8)	<5.4	NA	<5.2	<4.3	(<83.1)	<4.7	<4.2	NA	<5.1	(<125)	<4.9	<4.8	<4.8	<4.8

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS

CT DOT - Replacement of Bridge #01379, RoutE 150 (Center Street) over Wharton Brook, Wallingford
DOT Project # 148-201

						Lab Report No.:	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690	SB75690
						Lab Sample No:	SB75690-01SITE	SB75690-02SITE	SB75690-03SITE	SB75690-04SITE	SB75690-05SITE	SB75690-06SITE	SB75690-07SITE	SB75690-08SITE	SB75690-09SITE	SB75690-10SITE	SB75690-11SITE	SB75690-13SITE	SB75690-14SITE	SB75690-15SITE	SB75690-16SITE	SB75690-21SITE	SB75690-22SITE
Sample Depth (ft.)							**GP-1 (1.5-3.5')**	**GP-2 (1.5-3.5')**	**GP-3 (1.5-3.5')**	**GP-4 (5-7')**	**GP-5 (3-5')**	**GP-6 (10-12.5')**	**GP-7 (8-10')**	**GP-9 (5-7')**	**GP-10 (2-4')**	**GP-11 (1.5-3.5')**	**GP-12 (2-4)**	**SED-1 (0.5-1.5)**	**SED-2 (0.5-1.5)**	**SED-3 (1-2')**	**SED-4 (0-1')**	**WCS-1**	**WCS-2**
Date Collected							**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**08/22/13**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**	**8/22/2013**
SOIL-CTETPH			**1996 CT DEEP RSR - Res DEC**	**1996 CT DEEP RSR - I/C DEC**	**1996 CT DEEP RSR - GA PMC**	.																	
AC9 - C36 Aliphatic Hydrocarbons	AC9-C36ALIP	mg/kg	500	2,500	500		<28.6	52.2	68.6	<32.1	<29.6	<30.5	<31.5	NA	365	47.4	**550**	196	111	**3400**	127	<31.5	165
Aviation Fuel	Aviation Fuel	mg/kg	500	2,500	500		<28.6	<28.7	<29.4	<32.1	<29.6	<30.5	<31.5	NA	<30.0	<29.9	<30.1	<33.4	<34.3	<159	<31.1	<31.5	<30.9
CT ETPH	CT ETPH	mg/kg	500	2,500	500		<28.6	52.2	68.6	<32.1	<29.6	<30.5	<31.5	NA	365	47.4	**550**	196	111	**3400**	127	<31.5	165
Fuel Oil #2	68476-30-2	mg/kg	500	2,500	500		<28.6	<28.7	<29.4	<32.1	<29.6	<30.5	<31.5	NA	<30.0	<29.9	<30.1	<33.4	<34.3	<159	<31.1	<31.5	<30.9
Fuel Oil #4	68476-31-3	mg/kg	500	2,500	500		<28.6	<28.7	<29.4	<32.1	<29.6	<30.5	<31.5	NA	<30.0	<29.9	<30.1	<33.4	<34.3	<159	<31.1	<31.5	<30.9
Fuel Oil #6	68553-00-4	mg/kg	500	2,500	500		<28.6	<28.7	<29.4	<32.1	<29.6	<30.5	<31.5	NA	<30.0	<29.9	<30.1	<33.4	<34.3	<159	<31.1	<31.5	<30.9
Gasoline	8006-61-9	mg/kg	500	2,500	500		<28.6	<28.7	<29.4	<32.1	<29.6	<30.5	<31.5	NA	<30.0	<29.9	<30.1	<33.4	<34.3	<159	<31.1	<31.5	<30.9
Motor Oil	Motor Oil	mg/kg	500	2,500	500		<28.6	<28.7	<29.4	<32.1	<29.6	<30.5	<31.5	NA	<30.0	<29.9	<30.1	<33.4	<34.3	<159	<31.1	<31.5	<30.9
Other Oil	Other Oil (Spectrum CT ETPH)	mg/kg	500	2,500	500		<28.6	Calculated as	Calculated as	<32.1	<29.6	<30.5	<31.5	NA	Calculated as	Calculated as	Calculated as	Calculated as	Calculated as	Calculated as	Calculated as	<31.5	Calculated as
Unidentified TPH	Unidentified TPH	mg/kg	500	2,500	500		<28.6	52.2	68.6	<32.1	<29.6	<30.5	<31.5	NA	365	47.4	**550**	196	111	**3400**	127	<31.5	165
SOIL-Misc			**1996 CT DEEP RSR - Res DEC**	**1996 CT DEEP RSR - I/C DEC**	**1996 CT DEEP RSR - GA PMC**	.																	
PCB-1016	12674-11-2	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1221	11104-28-2	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1232	11141-16-5	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1242	53469-21-9	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1248	12672-29-6	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1254	11097-69-1	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1260	11096-82-5	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	0.0368	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1262	37324-23-5	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
PCB-1268	11100-14-4	mg/kg					<0.0209	NA	<0.0217	NA	NA	<0.0224	<0.0245	NA	NA	NA	NA	<0.0254	NA	NA	<0.0231	<0.0238	<0.0229
solids (percent)	solids	%					91.2	91.8	87.0	80.1	89.2	84.6	81.0	84.2	85.4	86.8	87.6	76.8	76.1	82.1	84.7	83.8	84.9
Flashpoint / Ignitability	FLASHPT	F					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	>200	>200
pH	PH	Units					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.32	7.02
Specific Conductance (EC)	Specific Conductance (EC)	uS/cm					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	168	169
PCBs-Total		mg/kg	1	10			<BRL	NA	<BRL	NA	NA	<BRL	<BRL	NA	NA	NA	NA	0.0368	NA	NA	<BRL	<BRL	<BRL

Legend

1	Parameter reported at a concetration greater than applicable regulatory standard/criterion
( )	Indicates the labortory reporting limit is greater than one or more applicable comparion criteria
BRL	Parameter consists of multiple isomers and were not detected above the laboratory reporting limit

Notes:

For Total Chromium, the DEC for Hexavalent Chromium was applied.
mg/l = milligrams per liter
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
(ft.) = feet
NA = Not Submitted for Analysis
CT DEEP = Connecticut Department of Energy and Environmental Protection
RSR = Remediation Standard Regulations
Res DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA PMC = groundwater class 'GA' Pollutant Mobility Criteria

ETPH = Extractable Total Petroleum Hydrocarbons
PAH = Polycyclic (polynuclear) Aromatic Hydrocarbon
PCBs = Polychlorinated Biphenyls
SPLP = Synthetic Precipitation Leaching Procedure
TCLP = Toxicity Characterization Leaching Procedure
MIN = Minimum result reported for all samples analyzed for parameter
MAX = Maximum result reported for all samples analyzed for parameter

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

CT DOT - Replacement of Bridge # 01379, Route 150 over Wharton Brook, Wallingford
DOT Asst. # 148-201

						Lab Report No.:	SB75690	SB75690	SB75690	SB75690	SB75690
						Lab Sample No:	SB75690-18SITE	SB75690-20SITE	SB75690-19SITE	SB75690-12SITE	SB75690-17SITE
							GP-4/MW-1	**GP-8/MW-2**	**GP-11/MW-3**	**TB-1**	**EB-1**
Sample Depth (ft.)											
Date Collected							**08/22/13**	**08/22/13**	**08/22/13**	**08/22/13**	**08/22/13**
WATER-Metals			**1996 CT DEEP RSR - Res GWVC**	**1996 CT DEEP RSR - I/C GWVC**	**1996 CT DEEP RSR - GWPC**	**1996 CT DEEP RSR - SWPC**					
Arsenic	7440-38-2	mg/l			0.05	0.004	<0.0040	<0.0040	**0.0430**	NA	<0.0040
Barium	7440-39-3	mg/l			1		0.278	0.375	**1.70**	NA	<0.0050
Cadmium	7440-43-9	mg/l			0.005	0.006	<0.0025	<0.0025	**0.0278**	NA	<0.0025
Chromium, Total	7440-47-3	mg/l			0.05	0.11	<0.0050	<0.0050	**0.0521**	NA	<0.0050
Lead	7439-92-1	mg/l			0.015	0.013	<0.0075	<0.0075	**0.0742**	NA	<0.0075
Mercury	7439-97-6	mg/l			0.002	0.0004	<0.00020	<0.00020	**0.00065**	NA	<0.00020
Selenium	7782-49-2	mg/l			0.05	0.05	<0.0150	<0.0150	<0.0300	NA	<0.0150
Silver	7440-22-4	mg/l			0.036	0.012	<0.0050	<0.0050	<0.0050	NA	<0.0050
WATER-8270SIM			**1996 CT DEEP RSR - Res GWVC**	**1996 CT DEEP RSR - I/C GWVC**	**1996 CT DEEP RSR - GWPC**	**1996 CT DEEP RSR - SWPC**					
1-Methylnaphthalene	90-12-0	µg/l					NA	0.992	16.2	NA	<0.500
2-Methylnaphthalene	91-57-6	µg/l					NA	1.17	25.5	NA	<0.500
Acenaphthene	83-32-9	µg/l					NA	0.345	<0.500	NA	<0.050
Acenaphthylene	208-96-8	µg/l			420	0.3	NA	**5.19**	**3.05**	NA	<0.050
Anthracene	120-12-7	µg/l			2,000	1,100,000	NA	1.39	2.44	NA	<0.050
Benzo(a)anthracene	56-55-3	µg/l			0.06	0.3	NA	**13.0**	(<0.500)	NA	<0.050
Benzo(a)pyrene	50-32-8	µg/l			0.2	0.3	NA	**21.9**	(<0.500)	NA	<0.050
Benzo(b)fluoranthene	205-99-2	µg/l			0.08	0.3	NA	**16.7**	(<0.500)	NA	<0.050
Benzo(ghi)perylene	191-24-2	µg/l					NA	13.7	<0.500	NA	<0.050
Benzo(k)fluoranthene	207-08-9	µg/l			0.5	0.3	NA	**16.5**	(<0.500)	NA	<0.050
Chrysene	218-01-9	µg/l					NA	11.1	<0.500	NA	<0.050
Dibenzo(a,H)anthracene	53-70-3	µg/l					NA	3.54	<0.500	NA	<0.050
Fluoranthene	206-44-0	µg/l			280	3,700	NA	17.3	4.11	NA	<0.050
Fluorene	86-73-7	µg/l			280	140,000	NA	<0.250	3.21	NA	<0.050
Indeno(1,2,3-cd)pyrene	193-39-5	µg/l					NA	18.5	<0.500	NA	<0.050
Naphthalene	91-20-3	µg/l			280		NA	0.993	88.2	NA	<0.500
Phenanthrene	85-01-8	µg/l			200	0.077	NA	**1.66**	**10.2**	NA	<0.050
Pyrene	129-00-0	µg/l			200	110,000	NA	21.7	3.02	NA	<0.050
WATER-8260B			**1996 CT DEEP RSR - Res GWVC**	**1996 CT DEEP RSR - I/C GWVC**	**1996 CT DEEP RSR - GWPC**	**1996 CT DEEP RSR - SWPC**					
1,1,1,2-Tetrachloroethane	630-20-6	µg/l	12	50	1		<1.00	<1.00	(<20.0)	<1.00	<1.00
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	23	100	0.5	110	<0.50	<0.50	(<10.0)	<0.50	<0.50
1,1,2-Trichloroethane	79-00-5	µg/l	8,000	19,600	5	1,260	<1.00	<1.00	(<20.0)	<1.00	<1.00
1,1-Dichloroethylene	75-35-4	µg/l	1	6	7	96	<1.00	<1.00	(<20.0)	<1.00	<1.00
1,2,4-Trimethylbenzene	95-63-6	µg/l					<1.00	<1.00	994	<1.00	<1.00
1,2-Dibromoethane (EDB) (ethylene dibromide)	106-93-4	µg/l	4	16	0.05		(<0.50)	(<0.50)	(<10.0)	(<0.50)	(<0.50)
1,2-Dichloroethane	107-06-2	µg/l	21	90	1	2,970	<1.00	<1.00	(<20.0)	<1.00	<1.00
1,2-Dichloropropane	78-87-5	µg/l	14	60	5		<1.00	<1.00	(<20.0)	<1.00	<1.00
1,3,5-Trimethylbenzene	108-67-8	µg/l					<1.00	<1.00	103	<1.00	<1.00
Acrylonitrile	107-13-1	µg/l			0.5	20	<0.50	<0.50	(<10.0)	<0.50	<0.50
Benzene	71-43-2	µg/l	215	530	1	710	<1.00	<1.00	(<20.0)	<1.00	<1.00
Bromoform	75-25-2	µg/l	920	3,800	4	10,800	<1.00	<1.00	(<20.0)	<1.00	<1.00
Carbon tetrachloride	56-23-5	µg/l	16	40	5	132	<1.00	<1.00	(<20.0)	<1.00	<1.00
Chloroform	67-66-3	µg/l	287	710	6	14,100	<1.00	<1.00	(<20.0)	<1.00	<1.00
Dibromochloromethane	124-48-1	µg/l			0.5	1,020	<0.50	<0.50	(<10.0)	<0.50	<0.50
Ethylbenzene	100-41-4	µg/l	50,000	50,000	700	580,000	<1.00	<1.00	531	<1.00	<1.00
Isopropylbenzene	98-82-8	µg/l					<1.00	<1.00	64.4	<1.00	<1.00
m/p-Xylenes	179601-23-1	µg/l					<2.00	<2.00	222	<2.00	<2.00
Methylene chloride (Dichloromethane)	75-09-2	µg/l	50,000	50,000	5	48,000	<2.00	<2.00	(<40.0)	<2.00	<2.00
Naphthalene	91-20-3	µg/l			280		<1.00	<1.00	135	<1.00	<1.00
n-Butylbenzene	104-51-8	µg/l					<1.00	<1.00	25.2	<1.00	<1.00
n-Propylbenzene	103-65-1	µg/l					<1.00	<1.00	166	<1.00	<1.00
o-Xylene	95-47-6	µg/l					<1.00	<1.00	58.6	<1.00	<1.00
Tetrachloroethylene	127-18-4	µg/l	1,500	3,820	5	88	<1.00	<1.00	(<20.0)	<1.00	<1.00
Trichloroethylene	79-01-6	µg/l	219	540	5	2,340	<1.00	<1.00	(<20.0)	<1.00	<1.00
Vinyl chloride	75-01-4	µg/l	2	2	2	15,750	<1.00	<1.00	(<20.0)	<1.00	<1.00
Xylene-Total		µg/l	21,300	50,000	530		<BRL	<BRL	280.6	<BRL	<BRL
WATER-CTETPH			**1996 CT DEEP RSR - Res GWVC**	**1996 CT DEEP RSR - I/C GWVC**	**1996 CT DEEP RSR - GWPC**	**1996 CT DEEP RSR - SWPC**					
AC9 - C36 Aliphatic Hydrocarbons	AC9-C36ALIP	mg/l			0.25		<0.2	<0.2	**3.4**	NA	<0.2
Aviation Fuel	Aviation Fuel	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
CT ETPH	CT ETPH	mg/l			0.25		<0.2	<0.2	**3.4**	NA	<0.2
Fuel Oil #2	68476-30-2	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
Fuel Oil #4	68476-31-3	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
Fuel Oil #6	68553-00-4	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
Gasoline	8006-61-9	mg/l			0.25		<0.2	<0.2	**3.4**	NA	<0.2
Motor Oil	Motor Oil	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
Other Oil	Other Oil (Spectrum CT ETPH)	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
Unidentified TPH	Unidentified TPH	mg/l			0.25		<0.2	<0.2	(<0.4)	NA	<0.2
WATER-Misc			**1996 CT DEEP RSR - Res GWVC**	**1996 CT DEEP RSR - I/C GWVC**	**1996 CT DEEP RSR - GWPC**	**1996 CT DEEP RSR - SWPC**					
PCB-1016	12674-11-2	mg/l					NA	NA	NA	NA	<0.000208
PCB-1221	11104-28-2	mg/l					NA	NA	NA	NA	<0.000208
PCB-1232	11141-16-5	mg/l					NA	NA	NA	NA	<0.000208
PCB-1242	53469-21-9	mg/l					NA	NA	NA	NA	<0.000208
PCB-1248	12672-29-6	mg/l					NA	NA	NA	NA	<0.000208
PCB-1254	11097-69-1	mg/l					NA	NA	NA	NA	<0.000208
PCB-1260	11096-82-5	mg/l					NA	NA	NA	NA	<0.000208
PCB-1262	37324-23-5	mg/l					NA	NA	NA	NA	<0.000208
PCB-1268	11100-14-4	mg/l					NA	NA	NA	NA	<0.000208
PCBs-Total		mg/l			0.0005	0.0005	NA	NA	NA	NA	<BRL

Legend

1	Parameter reported at a concetration greater than applicable regulatory standard/criterion
( )	Indicates the labortory reporting limit is greater than one or more applicable comparion criteria
BRL	Parameter consists of multiple isomers and were not detected above the laboratory reporting limit

Notes:

mg/l = milligrams per liter
µg/l = micrograms per liter
(ft.) = feet
SWPC = Surface Water Protection Criteria
GWPC = GroundWater Protection Criteria
I/C GWVC = Industrial/Commercial Volatilization Criteria for Groundwater
Res GWVC = Residential Volatilization Criteria for Groundwater
ETPH = Extractable Total Petroleum Hydrocarbons
NA = Not Submitted for Analysis
CT DEEP = Connecticut Department of Energy and Environmental Protection
RSR = Remediation Standard Regulations
PCBs = Polychlorinated Biphenyls
SIM = Selective Ion Monitoring
MIN = Minimum result reported for all samples analyzed for parameter
MAX = Maximum result reported for all samples analyzed for parameter

APPENDIX A

SOIL BORING LOGS

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-1
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		3.0	dry		0.0-0.5	SAND, tan, fine to medium, and SILT; little cobble		0.0		
				dry		0.5-1.0	SAND, brown, fine to medium				
										1.5-3.5'	GP-1 @ 10:50 a.m.
				dry		1.0-2.5	SAND, red/brown, fine to coarse; some cobble; little silt				PID 0.0 ppm
									0.0		
				dry							
5	10		4.0	slightly moist							
									0.0		
						2.5-10.0	SAND, red, fine to coarse; trace silt				
									0.0		
									0.0		
							Bottom of boring 10.0'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-2
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		3.0	dry		0.0-1.0	ASPHALT and ROADBASE (black, fine to coarse sand and cobble)				
				dry		1.0-2.5	SAND, brown, fine to medium; some cobble; little silt			1.5-3.5'	GP-2 @ 10:44 a.m. PID 0.0 ppm
				dry		2.5-3.5	SAND, brown, fine to medium; some silt; trace cobble				
						3.5-5.0	SAND, brown/red, fine to medium; some silt; little cobble				
5	7.5		2.5	slightly moist		5.0-6.0	SAND, red, fine to medium; some cobble; little silt				
				dry		6.0-7.5	SAND, red, fine to medium; some sandstone cobble; little silt				
							Refusal at 7.5'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-3
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		3.0	dry		0.0-1.5	SAND, dark brown, fine to medium, and SILT; littl organic; trace cobble		0.0		
				dry		1.5-3.5	SAND, brown, fine to medium; some cobble; little silt		0.2	1.5-3.5'	GP-3 @ 12:03 p.m. PID 0.0 ppm
				slightly moist		3.5-5.0	SAND, brown, fine to medium; some silt; trace cobble		0.1		
5	7.5		2.5	slightly moist		5.0-6.5	SAND, red/brown, fine to medium; some silt; little cobble		0.1		
				dry		6.5-7.5	SAND, red, fine to coarse; some cobble (sandstone); trace silt. Sandstone cobble in tip.		0.0		
							Refusal @ 7.5' Installed 1/2" Pro screen into bore hole to collect groundwater sample. No water in temp. well. Offset well to try for groundwater sample. Second attempt well dry. Will use another location to obtain GW sample.				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-4/MW-1
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
							(2 refusals @ 3.0' concrete; 1 refusal @ 9.0' offset 5.0' south)				
0	5		1.0	dry		0.0-1.0	ASPHALT and ROADBASE				
				slightly moist		1.0-7.0	SAND, brown, fine to medium and SILT; some cobble		0.1		
5	10		3.5								
				slightly moist					0.2	5.0-7.0'	GP-4 @ 2:39 p.m
				slightly moist					0.1		
				moist		7.0-8.5	SAND, brown, fine to medium; some silt; little cobble		0.0		
				moist		8.5-9.0	SAND, red/brown, medium to coarse, and COBBLE		0.0		
						9.0-10.0	SANDSTONE COBBLE		0.0		
							Refusal at 10.0' Installed 1/2" PVC screen into bore hole; very limited water--only able to fill 1 Amber (ETPH), 3 vials (VOCs), and filtered (10 micron) metals sample. GP-4/MW-1 @ 3:30				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-5
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		3.0	dry		0.0-1.5	ASPHALT and ROADBASE (black fine to medium sand and cobble)		-		
				dry		1.5-2.5	SAND, brown, fine to medium; some silt; little crushed brick		0.1		
				slightly moist		2.5-5.0	SAND, tan, fine to medium; some silt; trace cobble		0.0	3.0-5.0'	GP-5 @ 1:08 p.m. PID 0.0 ppm
5	10		1.0			5.0-10.0	SAND, tan/brown, fine to medium; some silt; trace cobble		0.0		
							Refusal at 10.0' with rock in tip		0.0		

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-6 Offset southeast (see map)
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.7	dry		0.0-2.5	ASPHALT and ROADBASE (black, fine to medium sand and cobble; little ash)		0.2		
				dry		2.5-5.0	SAND, red, fine to coarse; some silt; little cobble		0.0		
5	10		3.0	dry		5.0-6.5	SAND, red/brown, fine to medium; some silt; little cobble		0.0		
				moist		6.5-8.0	SAND, red/brown, fine to medium; some silt		0.0		
				moist		8.0-10.0	SAND, brown, fine and SILT		0.0		
10	12.5		1.5								
				moist		10.0-10.5	SAND, green/brown, medium to coarse; some silt		1.3	10.0-12.5'	GP-6 @ 10:21 a.m.
				moist		10.5-11.5	SAND, brown, medium to coarse and COBBLE; little silt		0.0		PID 0.0 ppm
				moist		11.5-12.5	SAND, red, fine to medium; some cobble; little silt				
							Bottom of boring 12.5'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-7
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.5	dry		0.0-2.0	ASPHALT and ROADBASE (black, fine to medium sand and cobble)		0.4		
				dry		2.0-4.5	SAND, brown, fine to medium and SILT; trace cobble		0.2		
5	10		2.5	dry		4.5-5.25	CONCRETE CHUNKS and fine to medium SAND		0.1		
				slightly moist @ 5.25'		5.25-7.5	SAND, brown, fine to medium; some cobble; little silt		0.1 0.0		
				moist		7.5-8.5	SAND, brown, fine to coarse; some silt; trace cobble; tree root 7.5-7.75'		0.0	8.0-10.0'	GP-7 @ 9:53 a.m.
10	13		0.25	slighlty wet		8.5-13.0	SAND, brown, medium to coarse; some cobble; little silt		1.7		PID 1.9 ppm
				slightly wet					1.5		
							Refusal at 13.0'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-8/MW-2 Offset 6.0 west south
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.5	dry		0.0-1.5	ASPHALT and ROADBASE (black, fine to coarse sand and cobble)				
				dry		1.5-3.0	SAND, red/brown, fine to medium; some silt; trace cobble		0.0		
				slightly moist		3.0-8.0	SAND, brown, fine to medium; some silt; trace cobble		0.1		
5	10		3.0						0.0		
				slightly moist							
				moist					0.0		
				wet		10.0-11.5	SAND, red, medium to coarse sand; little silt		0.0		
10	13		3.0	wet		11.5-13.0	SAND, red, medium to coarse and SANDSTONE COBBLE		0.0		
							Refusal at 13.0' NO soil sample. Installed 1/2" PVC screen into boring for groundwater sample. Allowed 1 hour before sampling with peristaltic pump. GP-8/MW-2 @ 1:33 p.m.				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-9
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.5	dry		0.0-1.0	SILT, brown and fine to medium SAND; little cobble		0.0		
				dry		1.0-1.5	SAND, red/brown, fine to medium and crushed BRICKS		0.0		
				dry		1.5-3.0	SAND, red, dry, fine to medium and SILT; trace cobble		0.0		
5	10		2.5	dry		3.0-7.0	SAND, brown, fine to medium; some cobble; little silt		0.0	5.0-7.0'	GP-9 @ 8:30 a.m. PID 0.0 ppm
				moist		7.0-8.5	SAND, brown, medium to coarse; some cobble; trace silt		0.0		
10	13		3.0	wet		8.5-10.0	SAND, red/brown, medium to coarse; little silt; trace cobble		0.0		
				wet		10.0-11.6	SAND, red/brown, medium to coarse; some cobble		0.0		
						11.6-13.0	SAND, red, fine to medium; little cobble; red sandstone piece in tip		0.0		
							Refusal at 13.0'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-10 Location offset, see map, concrete under road
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.2	dry		0.0-1.0	ASPHALT and ASPHALT BASE (medium to coarse sand, ash, cinder)		0.0		
				dry		1.0-2.5	SAND, red/brown, fine to medium and SILT		0.0	2.0-4.0'	GP-10 @ 9:28 a.m.
				dry		2.5-3.0	SAND, black, fine to medium and ASH, CINDER, BRICK		0.3		
				slightly moist		3.0-8.0	SAND, brown, medium to coarse; little silt; trace cobble		0.1		
5	10		4.0	moist					0.0		
				wet					0.0		
				wet		8.0-10.0	SAND, red, medium to coarse; some sandstone, cobble; trace silt		0.0		
							Bottom of boring 10.0'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-11/MW-3
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% / some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% / and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.5	dry		0.0-1.5	ASPHALT and ROADBASE		-	1.5-3.5'	GP-11 @ 1:45
				dry		1.5-3.5	SAND, red, fine to medium; some silt; little cobble		0.0		PID 0.4 ppm
				slightly moist		3.5-5.0	SAND, brown, fine to medium and SILT; trace cobble		2.6		
5	10		4.0	moist		5.0-8.0	SAND, brown, fine to medium and SILT; little cobble; strong petroleum odor		125.0		
				wet		8.0-13.0	SAND, brown, medium to coarse; some cobble; little silt; strong petroleum odor		256.0		
10	15		5.0	wet					128.0		
						13.0-15.0	SAND, red, fine and SILT; trace cobble				
							Bottom of boring 15.0'				
							Installed 1/2" PVC screen into bore hole for groundwater sample; GP-11/MW-3 @ 1:48 p.m.				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: GP-12
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	5		2.5	dry		0.0-1.0	SILT, brown and fine to medium SAND; trace cobble		0.1		
				dry		1.0-2.0	SIDEWALK BASE LAYER, black, fine to medium SAND and ASH, CINDER		0.2		
				moist		2.0-9.0	SAND, red, fine to medium; little cobble; trace silt		0.0	2.0-4.0'	GP-12 @ 8:55 a.m. PID 0.0 ppm
5	10		2.0	moist					0.0		
				moist		9.0-10.0	SAND, red, fine to medium and COBBLE		0.0		
10	15		5.0	wet		10.0-15.0	SAND, red/brown, fine to medium and SILT				
							Bottom of boring 15.0'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: SED-1 Southwest side of bridge
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	1.5		1.0	wet					0.0		
						0.0-1.5	SAND, tan, fine to coarse; some cobble; trace silt			0.5-1.5'	SED-1 @ 7:55 a.m.
			.5	wet					0.0		PID 0.0 ppm
							Refusal at 1.5', boulders				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: SED-2 Southeast side of bridge; due to heavy rain, sample collected 36' south of bridge
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	1.5		1.0	moist					0.0		
						0.0-1.5	SILT, brown and fine to medium SAND; trace cobble			0.5-1.5'	SED-2 @ 2:45 p.m.
			0.5	moist					0.0		PID 0.1 ppm
							Refusal at 1.5'				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: SED-3 Northwest side of bridge
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)	PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
0	2		1.0	wet		0.0-2.0	SAND, tan, medium to coarse and COBBLE; trace silt		0.0		
			1.0	wet					0.1	1.0-2.0'	SED-3 @ 7:15 a.m.
							Refusal at 2.0', boulders				

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

Project: CT DOT Replacement of Bridge 01379	HRP ASSOCIATES, INC.	Test Boring/Monitor Well ID: SED-4 Northeast side of bridge
Location: CT RTE. 150, Wallingford, CT	***DRILLING/SOIL LOG***	
HRP# CTD3002.21		Sheet No. __1__ of __1__
	Rig Type: Geoprobe 7730DT	
Date: 8/22/2013	**Hammer (weight [lb] / fall [inches])**	Driller: CES, Mike F.
HRP Rep. WFE		
Ground Elevation:	**PROPORTIONS**	
Total Boring Depth:	trace: 0 to 10% some: 20 to 35%	
Depth to Bedrock:	little: 10 to 20% and: 35 to 50%	

	Casing	*Sampler*	*Core Barrel*
Type			
O.D. (inch)			
I.D. (inch)			

Sampler Depth interval (ft) from	to	Sampler Blows per 6"	Recov. (ft)	Moisture	Soil Type	Contact Interval (ft)	Soil Description (proportions, grain size, etc.)
0	1		1.0	very moist		0.0-1.0	SAND, tan, fine to coarse and COBBLE; trace silt
							Refusal at 1.0'

PID (ppm) Depth	Reading	Soil Sample Details Interval	ID
	0.1	0.0-1.0'	SED-4 @ 7:23 a.m. PID 0.1 ppm

Monitoring Well Details

from	to	Borehole Diam. (in.)	Casing Diam. (in.)	Casing Material	Riser Diam. (in.)	Riser Material	Screen Diam. (in.)	Screen Material	Screen Slot Size

SOIL TYPE

CH (Fat Clay)	OH (Organic Clay / Silt of High Plasticity)
CL (Lean Clay)	OL (Organic Clay / Silt of Low Plasticity)
GC (Clayey Gravel)	PT (Highly Organic Soil / Peat)
GM (Silty Gravel)	SC (Clayey Sand)
GP (Poorly Graded Gravel)	SM (Silty Sand)
GW (Well-Graded Gravel)	SP (Poorly Graded Sand)
MH (Elastic Silt)	SW (Well-Graded Sand)
ML (Silt)	

ANNULAR FILL MATERIALS

from	to	Material

Penetration Resistance-140 lb./30" on 2" O.D. sampler

Cohesionless Density		Cohesive Consistence	
# Blows/ft		*# Blows/ft*	
0-4	very loose	0-2	very soft
5-9	loose	3-4	soft
10-29	edium dens	5-8	medium stiff
30-49	dense	15-Sep	stiff
50+	very dense	16-30	very stiff
		31+	hard

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Report Date:
03-Sep-13 14:08

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032
Attn: Walter Sepelak

Project: CT-DOT Replacement of Bridge 01379
Project #: CTD3002.21

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB75690-01	GP-1 (1.5-3.5')	Soil	22-Aug-13 12:03	23-Aug-13 16:00
SB75690-02	GP-2 (1.5-3.5')	Soil	22-Aug-13 10:44	23-Aug-13 16:00
SB75690-03	GP-3 (1.5-3.5')	Soil	22-Aug-13 12:03	23-Aug-13 16:00
SB75690-04	GP-4 (5-7')	Soil	22-Aug-13 14:39	23-Aug-13 16:00
SB75690-05	GP-5 (3-5')	Soil	22-Aug-13 13:08	23-Aug-13 16:00
SB75690-06	GP-6 (10-12.5')	Soil	22-Aug-13 10:21	23-Aug-13 16:00
SB75690-07	GP-7 (8-10')	Soil	22-Aug-13 09:53	23-Aug-13 16:00
SB75690-08	GP-9 (5-7')	Soil	22-Aug-13 08:30	23-Aug-13 16:00
SB75690-09	GP-10 (2-4')	Soil	22-Aug-13 09:28	23-Aug-13 16:00
SB75690-10	GP-11 (1.5-3.5')	Soil	22-Aug-13 13:45	23-Aug-13 16:00
SB75690-11	GP-12 (2-4)	Soil	22-Aug-13 09:28	23-Aug-13 16:00
SB75690-12	TB-1	Trip Blank	22-Aug-13 07:00	23-Aug-13 16:00
SB75690-13	SED-1 (0.5-1.5)	Soil	22-Aug-13 07:15	23-Aug-13 16:00
SB75690-14	SED-2 (0.5-1.5)	Soil	22-Aug-13 14:45	23-Aug-13 16:00
SB75690-15	SED-3 (1-2')	Soil	22-Aug-13 07:55	23-Aug-13 16:00
SB75690-16	SED-4 (0-1')	Soil	22-Aug-13 07:23	23-Aug-13 16:00
SB75690-17	EB-1	Deionized Water	22-Aug-13 08:40	23-Aug-13 16:00
SB75690-18	GP-4/MW-1	Ground Water	22-Aug-13 14:39	23-Aug-13 16:00
SB75690-19	GP-11/MW-3	Ground Water	22-Aug-13 13:48	23-Aug-13 16:00
SB75690-20	GP-8/MW-2	Ground Water	22-Aug-13 13:33	23-Aug-13 16:00
SB75690-21	WCS-1	Soil	22-Aug-13 13:29	23-Aug-13 16:00
SB75690-22	WCS-2	Soil	22-Aug-13 15:03	23-Aug-13 16:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 182 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

State Of Connecticut
Department of Environmental Protection
Laboratory Quality Control and Quality Assurance Form

Laboratory Name: Spectrum Analytical, Inc.

Project Location: CT-DOT Replacement of Bridge 01379

Project Name and Number: CT-DOT Replacement of Bridge 01379 / CTD3002.21

This form provides certification for the following data set: SB75690-01 through SB75690-22

Sample matrices:
- Deionized Water
- Ground Water
- Soil
- Trip Blank

Analytical methods used:

CT ETPH	SW846 7471B
EPA 200/6000 methods	SW846 8082A
EPA 245.1/7470A	SW846 8260C
SM2510B	SW846 8270D
SM2540 G Mod.	SW846 8270D SIM
SW846 1010A	SW846 9045D
SW846 1311	VOC Soil Extraction
SW846 1311/6010C	
SW846 1311/7470A	
SW846 1312	
SW846 1312/6010C	
SW846 1312/7470A	
SW846 6010C	

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain of Custody documentation for the data set?	☑ Yes	☐ No
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed?	☑ Yes	☐ No
C	Were all QC performance standards and recommendations for the specified methods achieved?	☑ Yes	☐ No
D	Were results for all analyte-list compounds/elements for the specified method(s) reported?	☐ Yes	☑ No *

* The compounds and/or elements reported are as specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

Negative responses for A, B and C are addressed in a case narrative on the cover page of this report.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Nicole Leja

Nicole Leja
Laboratory Director

Date: 9/3/2013

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Spectrum Analytical, Inc.

Client: HRP Associates, Inc.- Farmington, CT

Project Location: CT-DOT Replacement of Bridge 01379

Project Number: CTD3002.21

Sampling Date(s):
8/22/2013

Laboratory Sample ID(s):
SB75690-01 through SB75690-22

RCP Methods Used:

CT ETPH
EPA 245.1/7470A
SW846 1311
SW846 1311/6010C
SW846 1311/7470A
SW846 1312
SW846 1312/6010C
SW846 1312/7470A
SW846 6010C
SW846 7471B
SW846 8082A
SW846 8260C
SW846 8270D
SW846 8270D SIM

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	✓ Yes No
1A	Were the method specified preservation and holding time requirements met?	✓ Yes No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	Yes No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	✓ Yes No
3	Were samples received at an appropriate temperature?	✓ Yes No
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	Yes ✓ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	Yes ✓ No Yes No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ✓ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	✓ Yes No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Nicole Leja
Laboratory Director
Date: 9/3/2013

CASE NARRATIVE:

The samples were received 0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

Low level VOC soil samples submitted in DI water or in an encore sampler were frozen on 8/23/2013 at 16:00.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "<" (less than) the reporting limit in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

For this work order, the reporting limits have not been referenced or specified.

Effective 8/8/2012, the reporting limit for CT ETPH has been raised as proposed by the CT DEP from 0.100 mg/L to 0.200 mg/L for aqueous samples. This Reporting Limit is still lower than the CT DEP proposed Reporting Limit of 0.250 mg/L.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

CT ETPH

Spikes:

1320772-MS1 *Source: SB75690-11*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

C9-C36 Aliphatic Hydrocarbons

CT ETPH

Spikes:

1320772-MS1 *Source: SB75690-11*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

1320772-MSD1 *Source: SB75690-11*

RPD out of acceptance range.

C9-C36 Aliphatic Hydrocarbons

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

Duplicates:

1320772-DUP1 *Source: SB75690-11*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

Samples:

SB75690-09 *GP-10 (2-4')*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SB75690-11 *GP-12 (2-4)*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SB75690-15 *SED-3 (1-2')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SB75690-19 *GP-11/MW-3*

Elevated Reporting Limits due to limited sample volume.

SW846 1311/6010C

Duplicates:

1320825-DUP1 *Source: SB75690-21*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Arsenic
Chromium

SW846 1312/6010C

Duplicates:

1320692-DUP1 *Source: SB75690-02*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Lead

SW846 6010C

Spikes:

1320707-MS1 *Source: SB75690-16*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead
Silver

1320707-MSD1 *Source: SB75690-16*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Silver

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead
Silver

Duplicates:

1320707-DUP1 *Source: SB75690-16*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Silver

The Reporting Limit has been raised to account for matrix interference.

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Chromium
Lead

1320709-DUP1 *Source: SB75690-20*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Lead

Samples:

SB75690-16 *SED-4 (0-1')*

SW846 6010C

Samples:

SB75690-16 *SED-4 (0-1')*

The Reporting Limit has been raised to account for matrix interference.

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

SB75690-19 *GP-11/MW-3*

The Reporting Limit has been raised to account for matrix interference.

Arsenic
Barium
Cadmium
Lead
Selenium

SW846 7471B

Spikes:

1320708-MS1 *Source: SB75690-16*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Mercury

1320708-MSD1 *Source: SB75690-16*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Mercury

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Mercury

Duplicates:

1320708-DUP1 *Source: SB75690-16*

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Mercury

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

Samples:

SB75690-02 *GP-2 (1.5-3.5')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SB75690-04 *GP-4 (5-7')*

SW846 7471B

Samples:

SB75690-04 *GP-4 (5-7')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SB75690-08 *GP-9 (5-7')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SB75690-11 *GP-12 (2-4)*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SB75690-14 *SED-2 (0.5-1.5)*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SB75690-15 *SED-3 (1-2')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SB75690-16 *SED-4 (0-1')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SW846 8082A

Samples:

SB75690-13 *SED-1 (0.5-1.5)*

Difference between the two GC columns is greater than 40%.

Aroclor-1260 [2C]

SW846 8260C

Calibration:

1308074

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
Bromoform
Dibromochloromethane
Hexachlorobutadiene
Naphthalene

This affected the following samples:

S310075-ICV1

1308077

SW846 8260C

Calibration:

1308077

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,4-Dioxane
cis-1,3-Dichloropropene
Naphthalene
n-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1320704-BLK1
1320704-BS1
1320704-BSD1
1320706-BLK1
1320706-BS1
1320706-BSD1
1320839-BLK1
1320839-BS1
1320839-BSD1
1320939-BLK1
1320939-BS1
1320939-BSD1
GP-1 (1.5-3.5')
GP-10 (2-4')
GP-11 (1.5-3.5')
GP-2 (1.5-3.5')
GP-4 (5-7')
GP-6 (10-12.5')
GP-7 (8-10')
S310095-ICV1
S310321-CCV1
S310324-CCV1
S310381-CCV1
S310423-CCV1
SED-1 (0.5-1.5)
SED-3 (1-2')
SED-4 (0-1')
WCS-1
WCS-2

1308090

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
Acrylonitrile
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1308090

This affected the following samples:

1320848-BLK1
1320848-BS1
1320848-BSD1
EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
S310351-ICV1
S310390-CCV1
TB-1

S310075-ICV1

Analyte percent recovery is outside individual acceptance criteria.

Carbon disulfide (68%)
Naphthalene (79%)

This affected the following samples:

1320858-BLK1
1320858-BS1
1320858-BSD1
1320952-BLK1
1320952-BS1
1320952-BSD1
GP-3 (1.5-3.5')
GP-9 (5-7')
S310382-CCV1
S310463-CCV1
SED-2 (0.5-1.5)

S310351-ICV1

Analyte percent recovery is outside individual acceptance criteria.

Dichlorodifluoromethane (Freon12) (74%)

This affected the following samples:

1320848-BLK1
1320848-BS1
1320848-BSD1
EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
S310390-CCV1
TB-1

Laboratory Control Samples:

1320704 BSD

2-Butanone (MEK) RPD 36% (30%) is outside individual acceptance criteria.

1320839 BS/BSD

SW846 8260C

Laboratory Control Samples:

1320839 BS/BSD

2-Butanone (MEK) percent recoveries (68/85) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GP-10 (2-4')
GP-11 (1.5-3.5')
GP-7 (8-10')

1320848 BS/BSD

1,2,3-Trichlorobenzene percent recoveries (66/64) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

1,2,4-Trichlorobenzene percent recoveries (62/64) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

1,2-Dibromo-3-chloropropane percent recoveries (76/64) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

2-Butanone (MEK) percent recoveries (79/69) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

Acetone percent recoveries (77/62) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

SW846 8260C

Laboratory Control Samples:

1320848 BS/BSD

trans-1,4-Dichloro-2-butene percent recoveries (73/69) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

1320848 BSD

Acetone RPD 22% (20%) is outside individual acceptance criteria.

1320858 BS/BSD

1,2,3-Trichlorobenzene percent recoveries (138/136) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

GP-3 (1.5-3.5')

Bromomethane percent recoveries (67/66) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GP-3 (1.5-3.5')

Carbon disulfide percent recoveries (69/71) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GP-3 (1.5-3.5')

Naphthalene percent recoveries (130/139) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

GP-3 (1.5-3.5')

1320952 BS/BSD

1,1,2-Trichlorotrifluoroethane (Freon 113) percent recoveries (69/70) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GP-9 (5-7')
SED-2 (0.5-1.5)

Carbon disulfide percent recoveries (66/68) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

GP-9 (5-7')
SED-2 (0.5-1.5)

Samples:

S310321-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Dichlorodifluoromethane (Freon12) (-29.4%)
Ethyl tert-butyl ether (27.8%)
Methyl tert-butyl ether (26.1%)
Trichlorofluoromethane (Freon 11) (-21.2%)

SW846 8260C

Samples:

S310321-CCV1

This affected the following samples:

1320704-BLK1
1320704-BS1
1320704-BSD1
GP-1 (1.5-3.5')
GP-2 (1.5-3.5')
GP-4 (5-7')
GP-6 (10-12.5')

S310381-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Butanone (MEK) (-45.7%)
Ethanol (-28.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

2-Hexanone (MBK) (-22.8%)
4-Methyl-2-pentanone (MIBK) (-26.0%)
Tetrahydrofuran (-20.6%)

This affected the following samples:

1320839-BLK1
1320839-BS1
1320839-BSD1
GP-10 (2-4')
GP-11 (1.5-3.5')
GP-7 (8-10')

S310382-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (-32.9%)
Chloroethane (-21.4%)
Chloroform (-20.6%)
Chloromethane (-27.8%)
Methylene chloride (-21.0%)
Vinyl chloride (-22.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (37.6%)
1,2,4-Trichlorobenzene (25.2%)
Carbon disulfide (-31.3%)
Naphthalene (29.9%)

This affected the following samples:

1320858-BLK1
1320858-BS1
1320858-BSD1
GP-3 (1.5-3.5')

S310390-CCV1

SW846 8260C

Samples:

S310390-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1,2,2-Tetrachloroethane (-22.1%)
1,2-Dibromo-3-chloropropane (-25.5%)
Bromoform (-25.2%)
Naphthalene (-26.6%)
Tert-Butanol / butyl alcohol (-23.4%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (-36.4%)
1,2,4-Trichlorobenzene (-35.0%)
Acetone (-27.4%)
trans-1,4-Dichloro-2-butene (-25.6%)

This affected the following samples:

1320848-BLK1
1320848-BS1
1320848-BSD1
EB-1
GP-11/MW-3
GP-4/MW-1
GP-8/MW-2
TB-1

S310423-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,3,5-Trimethylbenzene (23.2%)
2,2-Dichloropropane (22.7%)
4-Chlorotoluene (21.1%)
Di-isopropyl ether (25.3%)
Ethyl tert-butyl ether (29.1%)
Methyl tert-butyl ether (25.3%)
n-Propylbenzene (21.5%)
Styrene (22.8%)
tert-Butylbenzene (21.1%)

This affected the following samples:

1320939-BLK1
1320939-BS1
1320939-BSD1
WCS-1
WCS-2

S310463-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1,2-Trichlorotrifluoroethane (Freon 113) (-26.3%)
Bromomethane (-23.7%)
Chloromethane (-21.1%)
Methylene chloride (-27.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Carbon disulfide (-23.6%)

SW846 8260C

Samples:

S310463-CCV1

This affected the following samples:

1320952-BLK1
1320952-BS1
1320952-BSD1
GP-9 (5-7')
SED-2 (0.5-1.5)

SB75690-03 *GP-3 (1.5-3.5')*

Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.

SB75690-08 *GP-9 (5-7')*

Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.

SB75690-14 *SED-2 (0.5-1.5)*

Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.

SB75690-19 *GP-11/MW-3*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8270D

Calibration:

1307079

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
2-Nitrophenol
4,6-Dinitro-2-methylphenol
4-Nitrophenol
Benzidine
Benzoic acid

This affected the following samples:

S308752-ICV1

S308043-ICV1

Analyte percent recovery is outside individual acceptance criteria.

Benzidine (128%)

This affected the following samples:

1320819-BLK1
1320819-BS1
S310476-CCV1

Laboratory Control Samples:

SW846 8270D

Laboratory Control Samples:

1320819 BS

4-Chlorophenyl phenyl ether percent recovery (145) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

WCS-1
WCS-2

Benzidine percent recovery (32) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

WCS-1
WCS-2

Benzoic acid percent recovery (19) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

WCS-1
WCS-2

Hexachlorocyclopentadiene percent recovery (147) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

WCS-1
WCS-2

Pentachloronitrobenzene percent recovery (141) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

WCS-1
WCS-2

Samples:

S310476-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3,3´-Dichlorobenzidine (32.5%)
4-Chlorophenyl phenyl ether (26.7%)
4-Nitrophenol (-36.8%)
Aniline (-23.0%)
Benzyl alcohol (-35.2%)
Hexachlorobutadiene (36.4%)
Hexachlorocyclopentadiene (24.9%)
Isophorone (-20.7%)
N-Nitrosodimethylamine (-28.3%)
Pyridine (-28.0%)

This affected the following samples:

1320819-BLK1
1320819-BS1

S310480-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (20.4%)
Bis(2-chloroisopropyl)ether (-21.9%)
Hexachlorobutadiene (30.3%)
Hexachlorocyclopentadiene (32.9%)

SW846 8270D

Samples:

S310480-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

4-Nitrophenol (39.8%)

This affected the following samples:

SED-1 (0.5-1.5)
SED-2 (0.5-1.5)
SED-3 (1-2')
SED-4 (0-1')
WCS-1
WCS-2

SB75690-03 *GP-3 (1.5-3.5')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB75690-09 *GP-10 (2-4')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB75690-11 *GP-12 (2-4)*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

2-Fluorobiphenyl
Terphenyl-dl4

SB75690-13 *SED-1 (0.5-1.5)*

The Reporting Limit has been raised to account for matrix interference.

SB75690-14 *SED-2 (0.5-1.5)*

The Reporting Limit has been raised to account for matrix interference.

SB75690-15 *SED-3 (1-2')*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.

2-Fluorobiphenyl
Terphenyl-dl4

SB75690-16 *SED-4 (0-1')*

The Reporting Limit has been raised to account for matrix interference.

SB75690-22 *WCS-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8270D SIM

Duplicates:

SW846 8270D SIM

Duplicates:

1320679-DUP1 *Source: SB75690-19*

RPD out of acceptance range.

2-Methylnaphthalene
Acenaphthylene
Benzo (a) anthracene
Chrysene
Fluorene

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Samples:

S310444-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Dibenzo (a,h) anthracene (24.5%)

This affected the following samples:

1320679-BLK2
1320679-BS2
1320679-BSD2
EB-1

S310478-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Dibenzo (a,h) anthracene (29.3%)

This affected the following samples:

1320679-DUP1
GP-11/MW-3
GP-8/MW-2

SB75690-19 *GP-11/MW-3*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SB75690-20 *GP-8/MW-2*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	HRP Associates, Inc.- Farmington, CT
Project:	CT-DOT Replacement of Bridge 01379 / CTD3002.21
Work Order:	SB75690
Sample(s) received on:	8/23/2013
Received by:	Tanya Krivolenko

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☐	☑	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 (1.5-3.5') SB75690-01	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.68 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.6		µg/kg dry	4.6	3.1	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
67-64-1	Acetone	< 45.9		µg/kg dry	45.9	34.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.6		µg/kg dry	4.6	4.1	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.6		µg/kg dry	4.6	2.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.6		µg/kg dry	4.6	2.9	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.6		µg/kg dry	4.6	1.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.6		µg/kg dry	4.6	1.7	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.6		µg/kg dry	4.6	3.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.2		µg/kg dry	9.2	8.3	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 45.9		µg/kg dry	45.9	39.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.6		µg/kg dry	4.6	2.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.6		µg/kg dry	4.6	4.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.6		µg/kg dry	4.6	3.3	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.2		µg/kg dry	9.2	6.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.6		µg/kg dry	4.6	4.6	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.6		µg/kg dry	4.6	2.6	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.2		µg/kg dry	9.2	6.5	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.6		µg/kg dry	4.6	2.2	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.2		µg/kg dry	9.2	2.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.6		µg/kg dry	4.6	2.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.6		µg/kg dry	4.6	4.1	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.2		µg/kg dry	9.2	8.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.6		µg/kg dry	4.6	2.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.6		µg/kg dry	4.6	3.1	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.6		µg/kg dry	4.6	4.6	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.6		µg/kg dry	4.6	3.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.6		µg/kg dry	4.6	4.6	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.6		µg/kg dry	4.6	3.1	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.2		µg/kg dry	9.2	7.7	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.6		µg/kg dry	4.6	4.5	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.6		µg/kg dry	4.6	2.6	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.6		µg/kg dry	4.6	2.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.6		µg/kg dry	4.6	1.9	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.6		µg/kg dry	4.6	3.8	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.6		µg/kg dry	4.6	2.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.6		µg/kg dry	4.6	2.3	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.6		µg/kg dry	4.6	1.8	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.6		µg/kg dry	4.6	2.8	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.6		µg/kg dry	4.6	2.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.6		µg/kg dry	4.6	1.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.6		µg/kg dry	4.6	2.8	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13
SB75690-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.68 g							
87-68-3	Hexachlorobutadiene	< 4.6		µg/kg dry	4.6	4.0	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
591-78-6	2-Hexanone (MBK)	< 45.9		µg/kg dry	45.9	11.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.6		µg/kg dry	4.6	2.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.6		µg/kg dry	4.6	1.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.6		µg/kg dry	4.6	3.3	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 45.9		µg/kg dry	45.9	14.9	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.2		µg/kg dry	9.2	2.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.6		µg/kg dry	4.6	2.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.6		µg/kg dry	4.6	2.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.6		µg/kg dry	4.6	3.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.6		µg/kg dry	4.6	4.4	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.6		µg/kg dry	4.6	3.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.6		µg/kg dry	4.6	2.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.6		µg/kg dry	4.6	4.1	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.6		µg/kg dry	4.6	4.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.6		µg/kg dry	4.6	3.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.6		µg/kg dry	4.6	3.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.6		µg/kg dry	4.6	3.7	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.6		µg/kg dry	4.6	3.9	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.6		µg/kg dry	4.6	3.5	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.6		µg/kg dry	4.6	1.9	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.6		µg/kg dry	4.6	2.1	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.6		µg/kg dry	4.6	1.5	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.6		µg/kg dry	4.6	4.5	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.6		µg/kg dry	4.6	4.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.2		µg/kg dry	9.2	8.9	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.6		µg/kg dry	4.6	3.1	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.2		µg/kg dry	9.2	8.5	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.6		µg/kg dry	4.6	4.3	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.6		µg/kg dry	4.6	3.6	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.6		µg/kg dry	4.6	1.6	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.6		µg/kg dry	4.6	1.5	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 45.9		µg/kg dry	45.9	26.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 91.7		µg/kg dry	91.7	75.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 22.9		µg/kg dry	22.9	11.7	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1830		µg/kg dry	1830	384	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*91*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*112*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13
SB75690-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 180		µg/kg dry	180	45.8	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 180		µg/kg dry	180	45.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 180		µg/kg dry	180	48.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 180		µg/kg dry	180	49.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 180		µg/kg dry	180	39.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 180		µg/kg dry	180	63.8	1	"	"	"	"	"	X
218-01-9	Chrysene	< 180		µg/kg dry	180	50.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 180		µg/kg dry	180	46.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 180		µg/kg dry	180	50.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 180		µg/kg dry	180	50.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 180		µg/kg dry	180	49.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 180		µg/kg dry	180	53.1	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 180		µg/kg dry	180	51.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 180		µg/kg dry	180	50.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 180		µg/kg dry	180	48.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 180		µg/kg dry	180	43.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*74*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*86*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 20.9		µg/kg dry	20.9	15.6	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 20.9		µg/kg dry	20.9	18.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9		µg/kg dry	20.9	13.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9		µg/kg dry	20.9	12.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.9		µg/kg dry	20.9	10.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9		µg/kg dry	20.9	17.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9		µg/kg dry	20.9	13.0	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9		µg/kg dry	20.9	19.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9		µg/kg dry	20.9	8.63	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.6		mg/kg dry	28.6	1.4	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 (1.5-3.5') SB75690-01	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 28.6		mg/kg dry	28.6	2.9	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-31-3	Fuel Oil #4	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.6		mg/kg dry	28.6	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.6		mg/kg dry	28.6	7.2	1	"	"	"	"	"	
	Unidentified	< 28.6		mg/kg dry	28.6	7.2	1	"	"	"	"	"	
	Other Oil	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 28.6		mg/kg dry	28.6	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 28.6		mg/kg dry	28.6	2.6	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*76*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.49		mg/kg dry	1.49	0.430	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	< 1.49		mg/kg dry	1.49	0.652	1	"	"	"	"	"	X
7440-39-3	Barium	**20.6**		mg/kg dry	0.996	0.321	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.498		mg/kg dry	0.498	0.146	1	"	"	"	"	"	X
7440-47-3	Chromium	**3.47**		mg/kg dry	0.996	0.215	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0286		mg/kg dry	0.0286	0.0015	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**2.67**		mg/kg dry	1.49	0.551	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.49		mg/kg dry	1.49	0.428	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**3.20**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**3.20**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	< 0.0100		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.2**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 10:44	23-Aug-13
SB75690-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 9.74 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.2		µg/kg dry	3.2	2.2	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
67-64-1	Acetone	< 32.4		µg/kg dry	32.4	24.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.2		µg/kg dry	3.2	2.9	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.2		µg/kg dry	3.2	1.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.2		µg/kg dry	3.2	2.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.2		µg/kg dry	3.2	1.1	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.2		µg/kg dry	3.2	1.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.2		µg/kg dry	3.2	2.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 6.5		µg/kg dry	6.5	5.8	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 32.4		µg/kg dry	32.4	27.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.2		µg/kg dry	3.2	3.1	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.2		µg/kg dry	3.2	2.3	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 6.5		µg/kg dry	6.5	4.6	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.2		µg/kg dry	3.2	3.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.2		µg/kg dry	3.2	1.8	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 6.5		µg/kg dry	6.5	4.6	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.5		µg/kg dry	6.5	1.6	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.2		µg/kg dry	3.2	2.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.2		µg/kg dry	3.2	2.9	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.5		µg/kg dry	6.5	6.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.2		µg/kg dry	3.2	2.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.2		µg/kg dry	3.2	3.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.2		µg/kg dry	3.2	2.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.2		µg/kg dry	3.2	3.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.2		µg/kg dry	3.2	2.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 6.5		µg/kg dry	6.5	5.5	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.2		µg/kg dry	3.2	3.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.2		µg/kg dry	3.2	1.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.2		µg/kg dry	3.2	1.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.2		µg/kg dry	3.2	2.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.2		µg/kg dry	3.2	1.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.2		µg/kg dry	3.2	2.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.2		µg/kg dry	3.2	1.8	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.2		µg/kg dry	3.2	0.9	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.2		µg/kg dry	3.2	2.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 10:44	23-Aug-13
SB75690-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 9.74 g							
87-68-3	Hexachlorobutadiene	< 3.2		µg/kg dry	3.2	2.8	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
591-78-6	2-Hexanone (MBK)	< 32.4		µg/kg dry	32.4	8.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.2		µg/kg dry	3.2	1.6	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.2		µg/kg dry	3.2	1.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.2		µg/kg dry	3.2	2.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 32.4		µg/kg dry	32.4	10.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 6.5		µg/kg dry	6.5	1.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.2		µg/kg dry	3.2	2.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.2		µg/kg dry	3.2	1.9	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.2		µg/kg dry	3.2	2.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.2		µg/kg dry	3.2	3.1	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.2		µg/kg dry	3.2	2.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.2		µg/kg dry	3.2	1.9	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.2		µg/kg dry	3.2	2.9	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.2		µg/kg dry	3.2	2.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.2		µg/kg dry	3.2	2.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.2		µg/kg dry	3.2	2.3	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.2		µg/kg dry	3.2	2.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.2		µg/kg dry	3.2	2.8	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.2		µg/kg dry	3.2	2.5	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.2		µg/kg dry	3.2	1.3	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.2		µg/kg dry	3.2	1.5	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.2		µg/kg dry	3.2	1.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.2		µg/kg dry	3.2	3.2	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.2		µg/kg dry	3.2	3.0	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 6.5		µg/kg dry	6.5	6.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.2		µg/kg dry	3.2	2.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.5		µg/kg dry	6.5	6.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.2		µg/kg dry	3.2	3.0	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.2		µg/kg dry	3.2	2.6	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.2		µg/kg dry	3.2	1.1	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.2		µg/kg dry	3.2	1.0	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 32.4		µg/kg dry	32.4	18.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 64.8		µg/kg dry	64.8	53.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 16.2		µg/kg dry	16.2	8.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1300		µg/kg dry	1300	271	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*93*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*117*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 10:44	23-Aug-13
SB75690-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 179		µg/kg dry	179	45.5	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 179		µg/kg dry	179	49.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 179		µg/kg dry	179	45.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**313**		µg/kg dry	179	47.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**389**		µg/kg dry	179	48.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**378**		µg/kg dry	179	38.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**205**		µg/kg dry	179	49.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**336**		µg/kg dry	179	63.4	1	"	"	"	"	"	X
218-01-9	Chrysene	**336**		µg/kg dry	179	50.5	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 179		µg/kg dry	179	46.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**575**		µg/kg dry	179	50.0	1	"	"	"	"	"	X
86-73-7	Fluorene	< 179		µg/kg dry	179	49.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**233**		µg/kg dry	179	49.6	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 179		µg/kg dry	179	52.8	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 179		µg/kg dry	179	51.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 179		µg/kg dry	179	50.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 179		µg/kg dry	179	47.8	1	"	"	"	"	"	X
129-00-0	Pyrene	**482**		µg/kg dry	179	43.3	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*76*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*89*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 28.7		mg/kg dry	28.7	1.4	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-30-2	Fuel Oil #2	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 28.7		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
M09800000	Motor Oil	< 28.7		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 28.7		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
	Unidentified	**52.2**		mg/kg dry	28.7	7.2	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**52.2**		mg/kg dry	28.7	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**52.2**		mg/kg dry	28.7	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*110*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.60		mg/kg dry	1.60	0.461	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**1.85**		mg/kg dry	1.60	0.697	1	"	"	"	"	"	X
7440-39-3	Barium	**69.2**		mg/kg dry	1.07	0.343	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.533		mg/kg dry	0.533	0.157	1	"	"	"	"	"	X
7440-47-3	Chromium	**6.50**		mg/kg dry	1.07	0.230	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 10:44	23-Aug-13
SB75690-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	**1.13**	GS1, D	mg/kg dry	0.293	0.0151	10	SW846 7471B	28-Aug-13	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**88.4**		mg/kg dry	1.60	0.590	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.60		mg/kg dry	1.60	0.458	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.40**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.40**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0492**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.0166**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**91.8**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13
SB75690-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 13.21 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 72.8	D	µg/kg dry	72.8	48.6	50	SW846 8260C	29-Aug-13	29-Aug-13	WB	1320858	X
67-64-1	Acetone	< 728	D	µg/kg dry	728	547	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 72.8	D	µg/kg dry	72.8	65.1	50	"	"	"	"	"	X
71-43-2	Benzene	< 72.8	D	µg/kg dry	72.8	38.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 72.8	D	µg/kg dry	72.8	46.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 72.8	D	µg/kg dry	72.8	23.9	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 72.8	D	µg/kg dry	72.8	27.5	50	"	"	"	"	"	X
75-25-2	Bromoform	< 72.8	D	µg/kg dry	72.8	50.3	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 146	D	µg/kg dry	146	131	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 728	D	µg/kg dry	728	624	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 72.8	D	µg/kg dry	72.8	36.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 72.8	D	µg/kg dry	72.8	70.6	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 72.8	D	µg/kg dry	72.8	52.6	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 291	D	µg/kg dry	291	104	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 72.8	D	µg/kg dry	72.8	72.4	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 72.8	D	µg/kg dry	72.8	40.7	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 146	D	µg/kg dry	146	103	50	"	"	"	"	"	X
67-66-3	Chloroform	< 72.8	D	µg/kg dry	72.8	35.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 146	D	µg/kg dry	146	36.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 72.8	D	µg/kg dry	72.8	44.3	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 72.8	D	µg/kg dry	72.8	65.1	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 146	D	µg/kg dry	146	138	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 72.8	D	µg/kg dry	72.8	34.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 72.8	D	µg/kg dry	72.8	49.4	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 72.8	D	µg/kg dry	72.8	72.6	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 72.8	D	µg/kg dry	72.8	58.6	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 72.8	D	µg/kg dry	72.8	72.4	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 72.8	D	µg/kg dry	72.8	49.1	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 146	D	µg/kg dry	146	123	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 72.8	D	µg/kg dry	72.8	71.1	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 72.8	D	µg/kg dry	72.8	40.7	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 72.8	D	µg/kg dry	72.8	36.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 72.8	D	µg/kg dry	72.8	30.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 72.8	D	µg/kg dry	72.8	60.4	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 72.8	D	µg/kg dry	72.8	37.0	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 72.8	D	µg/kg dry	72.8	36.6	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 72.8	D	µg/kg dry	72.8	29.3	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 72.8	D	µg/kg dry	72.8	44.9	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 72.8	D	µg/kg dry	72.8	39.7	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 72.8	D	µg/kg dry	72.8	20.6	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 72.8	D	µg/kg dry	72.8	44.3	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 (1.5-3.5') SB75690-03	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 13.21 g							
87-68-3	Hexachlorobutadiene	< 72.8	D	µg/kg dry	72.8	62.7	50	SW846 8260C	29-Aug-13	29-Aug-13	WB	1320858	X
591-78-6	2-Hexanone (MBK)	< 728	D	µg/kg dry	728	186	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 72.8	D	µg/kg dry	72.8	36.5	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 72.8	D	µg/kg dry	72.8	30.1	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 72.8	D	µg/kg dry	72.8	52.9	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 728	D	µg/kg dry	728	237	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 146	D	µg/kg dry	146	37.0	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 218	D	µg/kg dry	218	45.2	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 72.8	D	µg/kg dry	72.8	43.7	50	"	"	"	"	"	X
100-42-5	Styrene	< 72.8	D	µg/kg dry	72.8	53.9	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 72.8	D	µg/kg dry	72.8	69.9	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 72.8	D	µg/kg dry	72.8	55.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 72.8	D	µg/kg dry	72.8	41.6	50	"	"	"	"	"	X
108-88-3	Toluene	< 72.8	D	µg/kg dry	72.8	65.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 72.8	D	µg/kg dry	72.8	63.0	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 72.8	D	µg/kg dry	72.8	54.7	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 72.8	D	µg/kg dry	72.8	51.5	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 72.8	D	µg/kg dry	72.8	58.3	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 72.8	D	µg/kg dry	72.8	62.6	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 72.8	D	µg/kg dry	72.8	55.8	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 72.8	D	µg/kg dry	72.8	30.3	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 72.8	D	µg/kg dry	72.8	32.9	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 72.8	D	µg/kg dry	72.8	23.8	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 72.8	D	µg/kg dry	72.8	72.1	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 72.8	D	µg/kg dry	72.8	68.3	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 146	D	µg/kg dry	146	141	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 72.8	D	µg/kg dry	72.8	49.7	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 146	D	µg/kg dry	146	135	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 72.8	D	µg/kg dry	72.8	67.9	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 72.8	D	µg/kg dry	72.8	57.4	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 72.8	D	µg/kg dry	72.8	25.4	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 72.8	D	µg/kg dry	72.8	23.4	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 728	D	µg/kg dry	728	412	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1460	D	µg/kg dry	1460	1190	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 364	D	µg/kg dry	364	186	50	"	"	"	"	"	X
64-17-5	Ethanol	< 29100	D	µg/kg dry	29100	6090	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*102*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*92*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 (1.5-3.5') SB75690-03	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 381	D	µg/kg dry	381	96.8	2	SW846 8270D	28-Aug-13	30-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 381	D	µg/kg dry	381	106	2	"	"	"	"	"	X
120-12-7	Anthracene	< 381	D	µg/kg dry	381	97.1	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,510**	D	µg/kg dry	381	102	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,710**	D	µg/kg dry	381	104	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,830**	D	µg/kg dry	381	82.7	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**688**	D	µg/kg dry	381	106	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,190**	D	µg/kg dry	381	135	2	"	"	"	"	"	X
218-01-9	Chrysene	**1,530**	D	µg/kg dry	381	107	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 381	D	µg/kg dry	381	98.4	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**3,480**	D	µg/kg dry	381	106	2	"	"	"	"	"	X
86-73-7	Fluorene	< 381	D	µg/kg dry	381	106	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**853**	D	µg/kg dry	381	106	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 381	D	µg/kg dry	381	112	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 381	D	µg/kg dry	381	109	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 381	D	µg/kg dry	381	106	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,020**	D	µg/kg dry	381	102	2	"	"	"	"	"	X
129-00-0	Pyrene	**2,680**	D	µg/kg dry	381	92.0	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*63*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*74*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 21.7		µg/kg dry	21.7	16.2	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 21.7		µg/kg dry	21.7	19.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.7		µg/kg dry	21.7	13.9	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7		µg/kg dry	21.7	13.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7		µg/kg dry	21.7	11.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7		µg/kg dry	21.7	18.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7		µg/kg dry	21.7	13.5	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7		µg/kg dry	21.7	20.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7		µg/kg dry	21.7	8.96	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.4		mg/kg dry	29.4	1.5	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 (1.5-3.5') SB75690-03	CTD3002.21	Soil	22-Aug-13 12:03	23-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 29.4		mg/kg dry	29.4	2.9	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-31-3	Fuel Oil #4	< 29.4		mg/kg dry	29.4	2.9	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.4		mg/kg dry	29.4	7.3	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.4		mg/kg dry	29.4	2.9	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.4		mg/kg dry	29.4	7.3	1	"	"	"	"	"	
	Unidentified	**68.6**		mg/kg dry	29.4	7.3	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.4	2.9	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**68.6**		mg/kg dry	29.4	2.9	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**68.6**		mg/kg dry	29.4	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*83*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**1.87**		mg/kg dry	1.63	0.469	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**1.66**		mg/kg dry	1.63	0.710	1	"	"	"	"	"	X
7440-39-3	Barium	**54.1**		mg/kg dry	1.09	0.350	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.543		mg/kg dry	0.543	0.160	1	"	"	"	"	"	X
7440-47-3	Chromium	**7.68**		mg/kg dry	1.09	0.235	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.367**		mg/kg dry	0.0310	0.0016	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**96.6**		mg/kg dry	1.63	0.600	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.63		mg/kg dry	1.63	0.467	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.91**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.91**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0388**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.00022**		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.0354**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.0**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 (5-7')	CTD3002.21	Soil	22-Aug-13 14:39	23-Aug-13
SB75690-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.53 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.4		µg/kg dry	5.4	3.6	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
67-64-1	Acetone	< 53.9		µg/kg dry	53.9	40.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.4		µg/kg dry	5.4	4.8	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.4		µg/kg dry	5.4	2.8	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.4		µg/kg dry	5.4	3.4	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.4		µg/kg dry	5.4	1.8	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.4		µg/kg dry	5.4	2.0	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.4		µg/kg dry	5.4	3.7	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.8		µg/kg dry	10.8	9.7	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 53.9		µg/kg dry	53.9	46.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.4		µg/kg dry	5.4	2.7	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.4		µg/kg dry	5.4	5.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.4		µg/kg dry	5.4	3.9	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.8		µg/kg dry	10.8	7.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.4		µg/kg dry	5.4	5.4	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.4		µg/kg dry	5.4	3.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.8		µg/kg dry	10.8	7.6	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.4		µg/kg dry	5.4	2.6	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.8		µg/kg dry	10.8	2.7	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.4		µg/kg dry	5.4	3.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.4		µg/kg dry	5.4	4.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.8		µg/kg dry	10.8	10.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.4		µg/kg dry	5.4	2.6	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.4		µg/kg dry	5.4	3.7	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.4		µg/kg dry	5.4	5.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.4		µg/kg dry	5.4	4.3	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.4		µg/kg dry	5.4	5.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.4		µg/kg dry	5.4	3.6	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.8		µg/kg dry	10.8	9.1	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.4		µg/kg dry	5.4	5.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.4		µg/kg dry	5.4	3.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.4		µg/kg dry	5.4	2.7	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.4		µg/kg dry	5.4	2.3	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.4		µg/kg dry	5.4	4.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.4		µg/kg dry	5.4	2.7	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.4		µg/kg dry	5.4	2.7	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.4		µg/kg dry	5.4	2.2	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.4		µg/kg dry	5.4	3.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.4		µg/kg dry	5.4	2.9	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.4		µg/kg dry	5.4	1.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.4		µg/kg dry	5.4	3.3	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 (5-7')	CTD3002.21	Soil	22-Aug-13 14:39	23-Aug-13
SB75690-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.53 g							
87-68-3	Hexachlorobutadiene	< 5.4		µg/kg dry	5.4	4.6	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
591-78-6	2-Hexanone (MBK)	< 53.9		µg/kg dry	53.9	13.8	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.4		µg/kg dry	5.4	2.7	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.4		µg/kg dry	5.4	2.2	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.4		µg/kg dry	5.4	3.9	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 53.9		µg/kg dry	53.9	17.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.8		µg/kg dry	10.8	2.7	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.4		µg/kg dry	5.4	3.3	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.4		µg/kg dry	5.4	3.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.4		µg/kg dry	5.4	4.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.4		µg/kg dry	5.4	5.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.4		µg/kg dry	5.4	4.1	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.4		µg/kg dry	5.4	3.1	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.4		µg/kg dry	5.4	4.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.4		µg/kg dry	5.4	4.7	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.4		µg/kg dry	5.4	4.1	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.4		µg/kg dry	5.4	3.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.4		µg/kg dry	5.4	4.3	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.4		µg/kg dry	5.4	4.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.4		µg/kg dry	5.4	4.1	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.4		µg/kg dry	5.4	2.2	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.4		µg/kg dry	5.4	2.4	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.4		µg/kg dry	5.4	1.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.4		µg/kg dry	5.4	5.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.4		µg/kg dry	5.4	5.1	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.8		µg/kg dry	10.8	10.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.4		µg/kg dry	5.4	3.7	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.8		µg/kg dry	10.8	10.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.4		µg/kg dry	5.4	5.0	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.4		µg/kg dry	5.4	4.3	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.4		µg/kg dry	5.4	1.9	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.4		µg/kg dry	5.4	1.7	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 53.9		µg/kg dry	53.9	30.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 108		µg/kg dry	108	88.3	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 27.0		µg/kg dry	27.0	13.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 2160		µg/kg dry	2160	451	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*88*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*121*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*			*70-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 (5-7')	CTD3002.21	Soil	22-Aug-13 14:39	23-Aug-13
SB75690-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 32.1		mg/kg dry	32.1	1.6	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-30-2	Fuel Oil #2	< 32.1		mg/kg dry	32.1	3.2	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 32.1		mg/kg dry	32.1	3.2	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 32.1		mg/kg dry	32.1	8.0	1	"	"	"	"	"	
M09800000	Motor Oil	< 32.1		mg/kg dry	32.1	3.2	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 32.1		mg/kg dry	32.1	8.0	1	"	"	"	"	"	
	Unidentified	< 32.1		mg/kg dry	32.1	8.0	1	"	"	"	"	"	
	Other Oil	< 32.1		mg/kg dry	32.1	3.2	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 32.1		mg/kg dry	32.1	3.2	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 32.1		mg/kg dry	32.1	3.0	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*76*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**5.69**		mg/kg dry	1.86	0.536	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**2.58**		mg/kg dry	1.86	0.812	1	"	"	"	"	"	X
7440-39-3	Barium	**58.6**		mg/kg dry	1.24	0.400	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.621		mg/kg dry	0.621	0.183	1	"	"	"	"	"	X
7440-47-3	Chromium	**7.56**		mg/kg dry	1.24	0.268	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.689**	GS1, D	mg/kg dry	0.341	0.0175	10	SW846 7471B	"	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**139**		mg/kg dry	1.86	0.687	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.86		mg/kg dry	1.86	0.534	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.87**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.87**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0261**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.0202**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**80.1**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 (3-5')	CTD3002.21	Soil	22-Aug-13 13:08	23-Aug-13
SB75690-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 183		µg/kg dry	183	46.5	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 183		µg/kg dry	183	50.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 183		µg/kg dry	183	46.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 183		µg/kg dry	183	49.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 183		µg/kg dry	183	49.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 183		µg/kg dry	183	39.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 183		µg/kg dry	183	50.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 183		µg/kg dry	183	64.8	1	"	"	"	"	"	X
218-01-9	Chrysene	< 183		µg/kg dry	183	51.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 183		µg/kg dry	183	47.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 183		µg/kg dry	183	51.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 183		µg/kg dry	183	50.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 183		µg/kg dry	183	50.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 183		µg/kg dry	183	54.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 183		µg/kg dry	183	52.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 183		µg/kg dry	183	51.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 183		µg/kg dry	183	48.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 183		µg/kg dry	183	44.2	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*77*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*93*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.6		mg/kg dry	29.6	1.5	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-30-2	Fuel Oil #2	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
	Unidentified	< 29.6		mg/kg dry	29.6	7.4	1	"	"	"	"	"	
	Other Oil	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 29.6		mg/kg dry	29.6	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 29.6		mg/kg dry	29.6	2.7	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*79*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.66		mg/kg dry	1.66	0.478	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	< 1.66		mg/kg dry	1.66	0.724	1	"	"	"	"	"	X
7440-39-3	Barium	**87.3**		mg/kg dry	1.11	0.356	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.553		mg/kg dry	0.553	0.163	1	"	"	"	"	"	X
7440-47-3	Chromium	**8.65**		mg/kg dry	1.11	0.239	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.0309**		mg/kg dry	0.0307	0.0016	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 (3-5')	CTD3002.21	Soil	22-Aug-13 13:08	23-Aug-13
SB75690-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**10.6**		mg/kg dry	1.66	0.612	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.66		mg/kg dry	1.66	0.476	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**7.77**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**7.77**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0168**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**89.2**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 (10-12.5')	CTD3002.21	Soil	22-Aug-13 10:21	23-Aug-13
SB75690-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.96 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.2		µg/kg dry	5.2	3.4	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
67-64-1	Acetone	< 51.6		µg/kg dry	51.6	38.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.2		µg/kg dry	5.2	4.6	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.2		µg/kg dry	5.2	2.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.2		µg/kg dry	5.2	3.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.2		µg/kg dry	5.2	1.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.2		µg/kg dry	5.2	2.0	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.2		µg/kg dry	5.2	3.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.3		µg/kg dry	10.3	9.3	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 51.6		µg/kg dry	51.6	44.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.2		µg/kg dry	5.2	2.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.2		µg/kg dry	5.2	5.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.2		µg/kg dry	5.2	3.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.3		µg/kg dry	10.3	7.4	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.2		µg/kg dry	5.2	5.1	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.2		µg/kg dry	5.2	2.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.3		µg/kg dry	10.3	7.3	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.2		µg/kg dry	5.2	2.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.3		µg/kg dry	10.3	2.6	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.2		µg/kg dry	5.2	3.1	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.2		µg/kg dry	5.2	4.6	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.3		µg/kg dry	10.3	9.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.2		µg/kg dry	5.2	2.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.2		µg/kg dry	5.2	3.5	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.2		µg/kg dry	5.2	5.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.2		µg/kg dry	5.2	4.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.2		µg/kg dry	5.2	5.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.2		µg/kg dry	5.2	3.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.3		µg/kg dry	10.3	8.7	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.2		µg/kg dry	5.2	5.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.2		µg/kg dry	5.2	2.9	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.2		µg/kg dry	5.2	2.6	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.2		µg/kg dry	5.2	2.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.2		µg/kg dry	5.2	4.3	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.2		µg/kg dry	5.2	2.6	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.2		µg/kg dry	5.2	2.6	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.2		µg/kg dry	5.2	2.1	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.2		µg/kg dry	5.2	3.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.2		µg/kg dry	5.2	2.8	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.2		µg/kg dry	5.2	1.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.2		µg/kg dry	5.2	3.1	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 (10-12.5')	CTD3002.21	Soil	22-Aug-13 10:21	23-Aug-13
SB75690-06				

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level) — Initial weight: 6.96 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
87-68-3	Hexachlorobutadiene	< 5.2		µg/kg dry	5.2	4.4	1	SW846 8260C	28-Aug-13	28-Aug-13	JEG	1320704	X
591-78-6	2-Hexanone (MBK)	< 51.6		µg/kg dry	51.6	13.2	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.2		µg/kg dry	5.2	2.6	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.2		µg/kg dry	5.2	2.1	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.2		µg/kg dry	5.2	3.8	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 51.6		µg/kg dry	51.6	16.8	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.3		µg/kg dry	10.3	2.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.2		µg/kg dry	5.2	3.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.2		µg/kg dry	5.2	3.1	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.2		µg/kg dry	5.2	3.8	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.2		µg/kg dry	5.2	5.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.2		µg/kg dry	5.2	3.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.2		µg/kg dry	5.2	3.0	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.2		µg/kg dry	5.2	4.6	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.2		µg/kg dry	5.2	4.5	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.2		µg/kg dry	5.2	3.9	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.2		µg/kg dry	5.2	3.7	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.2		µg/kg dry	5.2	4.1	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.2		µg/kg dry	5.2	4.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.2		µg/kg dry	5.2	4.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.2		µg/kg dry	5.2	2.1	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.2		µg/kg dry	5.2	2.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.2		µg/kg dry	5.2	1.7	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.2		µg/kg dry	5.2	5.1	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.2		µg/kg dry	5.2	4.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.3		µg/kg dry	10.3	10.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.2		µg/kg dry	5.2	3.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.3		µg/kg dry	10.3	9.5	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.2		µg/kg dry	5.2	4.8	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.2		µg/kg dry	5.2	4.1	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.2		µg/kg dry	5.2	1.8	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.2		µg/kg dry	5.2	1.7	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 51.6		µg/kg dry	51.6	29.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 103		µg/kg dry	103	84.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.8		µg/kg dry	25.8	13.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 2060		µg/kg dry	2060	432	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*91*	*70-130 %*	"	"	"	"	"
2037-26-5	*Toluene-d8*	*101*	*70-130 %*	"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*115*	*70-130 %*	"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*104*	*70-130 %*	"	"	"	"	"

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 (10-12.5')	CTD3002.21	Soil	22-Aug-13 10:21	23-Aug-13
SB75690-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 194		µg/kg dry	194	49.3	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 194		µg/kg dry	194	53.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 194		µg/kg dry	194	49.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 194		µg/kg dry	194	51.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 194		µg/kg dry	194	52.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 194		µg/kg dry	194	42.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 194		µg/kg dry	194	53.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 194		µg/kg dry	194	68.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 194		µg/kg dry	194	54.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 194		µg/kg dry	194	50.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 194		µg/kg dry	194	54.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 194		µg/kg dry	194	53.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 194		µg/kg dry	194	53.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 194		µg/kg dry	194	57.2	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 194		µg/kg dry	194	55.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 194		µg/kg dry	194	54.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 194		µg/kg dry	194	51.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 194		µg/kg dry	194	46.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*71*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*85*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 22.4		µg/kg dry	22.4	16.7	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 22.4		µg/kg dry	22.4	20.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.4		µg/kg dry	22.4	14.4	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.4		µg/kg dry	22.4	13.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.4		µg/kg dry	22.4	11.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.4		µg/kg dry	22.4	18.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.4		µg/kg dry	22.4	13.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.4		µg/kg dry	22.4	20.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.4		µg/kg dry	22.4	9.22	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.5		mg/kg dry	30.5	1.5	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 (10-12.5')	CTD3002.21	Soil	22-Aug-13 10:21	23-Aug-13
SB75690-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 30.5		mg/kg dry	30.5	3.0	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-31-3	Fuel Oil #4	< 30.5		mg/kg dry	30.5	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.5		mg/kg dry	30.5	7.6	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.5		mg/kg dry	30.5	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.5		mg/kg dry	30.5	7.6	1	"	"	"	"	"	
	Unidentified	< 30.5		mg/kg dry	30.5	7.6	1	"	"	"	"	"	
	Other Oil	< 30.5		mg/kg dry	30.5	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 30.5		mg/kg dry	30.5	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 30.5		mg/kg dry	30.5	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*75*			*50-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.6**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 (8-10')	CTD3002.21	Soil	22-Aug-13 09:53	23-Aug-13
SB75690-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 9.81 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.3		µg/kg dry	4.3	2.9	1	SW846 8260C	28-Aug-13	30-Aug-13	JEG	1320839	X
67-64-1	Acetone	**45.7**		µg/kg dry	43.2	32.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.3		µg/kg dry	4.3	3.9	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.3		µg/kg dry	4.3	2.3	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.3		µg/kg dry	4.3	2.8	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.3		µg/kg dry	4.3	1.4	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.3		µg/kg dry	4.3	1.6	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.3		µg/kg dry	4.3	3.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.6		µg/kg dry	8.6	7.8	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 43.2		µg/kg dry	43.2	37.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.3		µg/kg dry	4.3	2.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.3		µg/kg dry	4.3	4.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.3		µg/kg dry	4.3	3.1	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.6		µg/kg dry	8.6	6.2	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.3		µg/kg dry	4.3	4.3	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.3		µg/kg dry	4.3	2.4	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.6		µg/kg dry	8.6	6.1	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.3		µg/kg dry	4.3	2.1	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.6		µg/kg dry	8.6	2.2	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.3		µg/kg dry	4.3	2.6	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.3		µg/kg dry	4.3	3.9	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.6		µg/kg dry	8.6	8.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.3		µg/kg dry	4.3	2.1	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.3		µg/kg dry	4.3	2.9	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.3		µg/kg dry	4.3	4.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.3		µg/kg dry	4.3	3.5	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.3		µg/kg dry	4.3	4.3	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.3		µg/kg dry	4.3	2.9	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.6		µg/kg dry	8.6	7.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.3		µg/kg dry	4.3	4.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.3		µg/kg dry	4.3	2.4	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.3		µg/kg dry	4.3	2.2	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.3		µg/kg dry	4.3	1.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.3		µg/kg dry	4.3	3.6	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.3		µg/kg dry	4.3	2.2	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.3		µg/kg dry	4.3	2.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.3		µg/kg dry	4.3	1.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.3		µg/kg dry	4.3	2.7	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.3		µg/kg dry	4.3	2.4	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.3		µg/kg dry	4.3	1.2	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.3		µg/kg dry	4.3	2.6	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 (8-10')	CTD3002.21	Soil	22-Aug-13 09:53	23-Aug-13
SB75690-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 9.81 g							
87-68-3	Hexachlorobutadiene	< 4.3		µg/kg dry	4.3	3.7	1	SW846 8260C	28-Aug-13	30-Aug-13	JEG	1320839	X
591-78-6	2-Hexanone (MBK)	< 43.2		µg/kg dry	43.2	11.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.3		µg/kg dry	4.3	2.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.3		µg/kg dry	4.3	1.8	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.3		µg/kg dry	4.3	3.1	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 43.2		µg/kg dry	43.2	14.1	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.6		µg/kg dry	8.6	2.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.3		µg/kg dry	4.3	2.7	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.3		µg/kg dry	4.3	2.6	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.3		µg/kg dry	4.3	3.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.3		µg/kg dry	4.3	4.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.3		µg/kg dry	4.3	3.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.3		µg/kg dry	4.3	2.5	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.3		µg/kg dry	4.3	3.9	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.3		µg/kg dry	4.3	3.7	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.3		µg/kg dry	4.3	3.3	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.3		µg/kg dry	4.3	3.1	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.3		µg/kg dry	4.3	3.5	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.3		µg/kg dry	4.3	3.7	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.3		µg/kg dry	4.3	3.3	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.3		µg/kg dry	4.3	1.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.3		µg/kg dry	4.3	2.0	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.3		µg/kg dry	4.3	1.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.3		µg/kg dry	4.3	4.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.3		µg/kg dry	4.3	4.1	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.6		µg/kg dry	8.6	8.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.3		µg/kg dry	4.3	3.0	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.6		µg/kg dry	8.6	8.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.3		µg/kg dry	4.3	4.0	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.3		µg/kg dry	4.3	3.4	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.3		µg/kg dry	4.3	1.5	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.3		µg/kg dry	4.3	1.4	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 43.2		µg/kg dry	43.2	24.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 86.5		µg/kg dry	86.5	70.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 21.6		µg/kg dry	21.6	11.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1730		µg/kg dry	1730	362	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*121*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*109*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 (8-10')	CTD3002.21	Soil	22-Aug-13 09:53	23-Aug-13
SB75690-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 201		µg/kg dry	201	51.1	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 201		µg/kg dry	201	55.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 201		µg/kg dry	201	51.2	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 201		µg/kg dry	201	53.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 201		µg/kg dry	201	54.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 201		µg/kg dry	201	43.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 201		µg/kg dry	201	55.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 201		µg/kg dry	201	71.2	1	"	"	"	"	"	X
218-01-9	Chrysene	< 201		µg/kg dry	201	56.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 201		µg/kg dry	201	51.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**293**		µg/kg dry	201	56.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 201		µg/kg dry	201	55.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 201		µg/kg dry	201	55.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 201		µg/kg dry	201	59.3	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 201		µg/kg dry	201	57.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 201		µg/kg dry	201	56.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 201		µg/kg dry	201	53.6	1	"	"	"	"	"	X
129-00-0	Pyrene	**293**		µg/kg dry	201	48.6	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*86*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 24.5		µg/kg dry	24.5	18.3	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 24.5		µg/kg dry	24.5	22.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.5		µg/kg dry	24.5	15.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.5		µg/kg dry	24.5	14.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.5		µg/kg dry	24.5	12.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.5		µg/kg dry	24.5	20.5	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.5		µg/kg dry	24.5	15.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.5		µg/kg dry	24.5	22.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.5		µg/kg dry	24.5	10.1	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*90*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 31.5		mg/kg dry	31.5	1.6	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 (8-10')	CTD3002.21	Soil	22-Aug-13 09:53	23-Aug-13
SB75690-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 31.5		mg/kg dry	31.5	3.2	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-31-3	Fuel Oil #4	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 31.5		mg/kg dry	31.5	7.9	1	"	"	"	"	"	
M09800000	Motor Oil	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 31.5		mg/kg dry	31.5	7.9	1	"	"	"	"	"	
	Unidentified	< 31.5		mg/kg dry	31.5	7.9	1	"	"	"	"	"	
	Other Oil	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 31.5		mg/kg dry	31.5	2.9	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*89*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.74		mg/kg dry	1.74	0.502	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	< 1.74		mg/kg dry	1.74	0.761	1	"	"	"	"	"	X
7440-39-3	Barium	**150**		mg/kg dry	1.16	0.375	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.582		mg/kg dry	0.582	0.171	1	"	"	"	"	"	X
7440-47-3	Chromium	**11.1**		mg/kg dry	1.16	0.251	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.0985**		mg/kg dry	0.0339	0.0017	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**13.6**		mg/kg dry	1.74	0.643	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.74		mg/kg dry	1.74	0.500	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.52**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.52**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0139**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**81.0**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 (5-7')	CTD3002.21	Soil	22-Aug-13 08:30	23-Aug-13
SB75690-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 12.09 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 83.1	D	µg/kg dry	83.1	55.4	50	SW846 8260C	30-Aug-13	30-Aug-13	GMA	1320952	X
67-64-1	Acetone	< 831	D	µg/kg dry	831	625	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 83.1	D	µg/kg dry	83.1	74.4	50	"	"	"	"	"	X
71-43-2	Benzene	< 83.1	D	µg/kg dry	83.1	43.6	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 83.1	D	µg/kg dry	83.1	53.0	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 83.1	D	µg/kg dry	83.1	27.3	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 83.1	D	µg/kg dry	83.1	31.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 83.1	D	µg/kg dry	83.1	57.4	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 166	D	µg/kg dry	166	150	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 831	D	µg/kg dry	831	713	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 83.1	D	µg/kg dry	83.1	41.5	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 83.1	D	µg/kg dry	83.1	80.6	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 83.1	D	µg/kg dry	83.1	60.1	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 166	D	µg/kg dry	166	119	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 83.1	D	µg/kg dry	83.1	82.6	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 83.1	D	µg/kg dry	83.1	46.5	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 166	D	µg/kg dry	166	118	50	"	"	"	"	"	X
67-66-3	Chloroform	< 83.1	D	µg/kg dry	83.1	40.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 166	D	µg/kg dry	166	41.8	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 83.1	D	µg/kg dry	83.1	50.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 83.1	D	µg/kg dry	83.1	74.4	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 166	D	µg/kg dry	166	157	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 83.1	D	µg/kg dry	83.1	39.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 83.1	D	µg/kg dry	83.1	56.4	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 83.1	D	µg/kg dry	83.1	82.9	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 83.1	D	µg/kg dry	83.1	66.9	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 83.1	D	µg/kg dry	83.1	82.7	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 83.1	D	µg/kg dry	83.1	56.1	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 166	D	µg/kg dry	166	140	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 83.1	D	µg/kg dry	83.1	81.2	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 83.1	D	µg/kg dry	83.1	46.5	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 83.1	D	µg/kg dry	83.1	41.4	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 83.1	D	µg/kg dry	83.1	34.9	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 83.1	D	µg/kg dry	83.1	69.0	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 83.1	D	µg/kg dry	83.1	42.3	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 83.1	D	µg/kg dry	83.1	41.8	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 83.1	D	µg/kg dry	83.1	33.5	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 83.1	D	µg/kg dry	83.1	51.3	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 83.1	D	µg/kg dry	83.1	45.3	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 83.1	D	µg/kg dry	83.1	23.5	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 83.1	D	µg/kg dry	83.1	50.6	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 (5-7') SB75690-08	CTD3002.21	Soil	22-Aug-13 08:30	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 12.09 g							
87-68-3	Hexachlorobutadiene	< 83.1	D	µg/kg dry	83.1	71.6	50	SW846 8260C	30-Aug-13	30-Aug-13	GMA	1320952	X
591-78-6	2-Hexanone (MBK)	< 831	D	µg/kg dry	831	212	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 83.1	D	µg/kg dry	83.1	41.7	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 83.1	D	µg/kg dry	83.1	34.4	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 83.1	D	µg/kg dry	83.1	60.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 831	D	µg/kg dry	831	270	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 166	D	µg/kg dry	166	42.2	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 83.1	D	µg/kg dry	83.1	51.6	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 83.1	D	µg/kg dry	83.1	49.9	50	"	"	"	"	"	X
100-42-5	Styrene	< 83.1	D	µg/kg dry	83.1	61.5	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 83.1	D	µg/kg dry	83.1	79.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 83.1	D	µg/kg dry	83.1	63.2	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 83.1	D	µg/kg dry	83.1	47.5	50	"	"	"	"	"	X
108-88-3	Toluene	< 83.1	D	µg/kg dry	83.1	74.5	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 83.1	D	µg/kg dry	83.1	72.0	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 83.1	D	µg/kg dry	83.1	62.5	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 83.1	D	µg/kg dry	83.1	58.8	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 83.1	D	µg/kg dry	83.1	66.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 83.1	D	µg/kg dry	83.1	71.5	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 83.1	D	µg/kg dry	83.1	63.7	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 83.1	D	µg/kg dry	83.1	34.6	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 83.1	D	µg/kg dry	83.1	37.6	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 83.1	D	µg/kg dry	83.1	27.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 83.1	D	µg/kg dry	83.1	82.4	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 83.1	D	µg/kg dry	83.1	78.0	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 166	D	µg/kg dry	166	161	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 83.1	D	µg/kg dry	83.1	56.8	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 166	D	µg/kg dry	166	154	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 83.1	D	µg/kg dry	83.1	77.5	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 83.1	D	µg/kg dry	83.1	65.6	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 83.1	D	µg/kg dry	83.1	29.0	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 83.1	D	µg/kg dry	83.1	26.8	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 831	D	µg/kg dry	831	470	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1660	D	µg/kg dry	1660	1360	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 416	D	µg/kg dry	416	213	50	"	"	"	"	"	X
64-17-5	Ethanol	< 33200	D	µg/kg dry	33200	6950	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*102*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*97*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*90*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 (5-7')	CTD3002.21	Soil	22-Aug-13 08:30	23-Aug-13
SB75690-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 197		µg/kg dry	197	50.2	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 197		µg/kg dry	197	54.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 197		µg/kg dry	197	50.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 197		µg/kg dry	197	52.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 197		µg/kg dry	197	53.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 197		µg/kg dry	197	42.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 197		µg/kg dry	197	54.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 197		µg/kg dry	197	69.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 197		µg/kg dry	197	55.7	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 197		µg/kg dry	197	51.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 197		µg/kg dry	197	55.2	1	"	"	"	"	"	X
86-73-7	Fluorene	< 197		µg/kg dry	197	54.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 197		µg/kg dry	197	54.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 197		µg/kg dry	197	58.2	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 197		µg/kg dry	197	56.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 197		µg/kg dry	197	55.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 197		µg/kg dry	197	52.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 197		µg/kg dry	197	47.7	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*72*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*85*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**1.93**		mg/kg dry	1.55	0.445	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	< 1.55		mg/kg dry	1.55	0.674	1	"	"	"	"	"	X
7440-39-3	Barium	**80.5**		mg/kg dry	1.03	0.332	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.515		mg/kg dry	0.515	0.151	1	"	"	"	"	"	X
7440-47-3	Chromium	**7.33**		mg/kg dry	1.03	0.223	1	"	"	"	"	"	X
7439-97-6	Mercury	**2.28**	GS1, D	mg/kg dry	0.335	0.0172	10	SW846 7471B	"	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**18.9**		mg/kg dry	1.55	0.570	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.55		mg/kg dry	1.55	0.443	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**7.77**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**7.77**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0161**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.00024**		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 (5-7') SB75690-08	CTD3002.21	Soil	22-Aug-13 08:30	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.2**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 (2-4')	CTD3002.21	Soil	22-Aug-13 09:28	23-Aug-13
SB75690-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.71 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.7		µg/kg dry	4.7	3.1	1	SW846 8260C	28-Aug-13	30-Aug-13	JEG	1320839	X
67-64-1	Acetone	< 46.6		µg/kg dry	46.6	35.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.7		µg/kg dry	4.7	4.2	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.7		µg/kg dry	4.7	2.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.7		µg/kg dry	4.7	3.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.7		µg/kg dry	4.7	1.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.7		µg/kg dry	4.7	1.8	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.7		µg/kg dry	4.7	3.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.3		µg/kg dry	9.3	8.4	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 46.6		µg/kg dry	46.6	39.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.7		µg/kg dry	4.7	2.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.7		µg/kg dry	4.7	4.5	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.7		µg/kg dry	4.7	3.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.3		µg/kg dry	9.3	6.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.7		µg/kg dry	4.7	4.6	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.7		µg/kg dry	4.7	2.6	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.3		µg/kg dry	9.3	6.6	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.7		µg/kg dry	4.7	2.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.3		µg/kg dry	9.3	2.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.7		µg/kg dry	4.7	2.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.7		µg/kg dry	4.7	4.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.3		µg/kg dry	9.3	8.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.7		µg/kg dry	4.7	2.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.7		µg/kg dry	4.7	3.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.7		µg/kg dry	4.7	4.6	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.7		µg/kg dry	4.7	3.7	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.7		µg/kg dry	4.7	4.6	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.7		µg/kg dry	4.7	3.1	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.3		µg/kg dry	9.3	7.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.7		µg/kg dry	4.7	4.5	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.7		µg/kg dry	4.7	2.6	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.7		µg/kg dry	4.7	2.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.7		µg/kg dry	4.7	2.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.7		µg/kg dry	4.7	3.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.7		µg/kg dry	4.7	2.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.7		µg/kg dry	4.7	2.3	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.7		µg/kg dry	4.7	1.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.7		µg/kg dry	4.7	2.9	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.7		µg/kg dry	4.7	2.5	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.7		µg/kg dry	4.7	1.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.7		µg/kg dry	4.7	2.8	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 (2-4') SB75690-09	CTD3002.21	Soil	22-Aug-13 09:28	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.71 g							
87-68-3	Hexachlorobutadiene	< 4.7		µg/kg dry	4.7	4.0	1	SW846 8260C	28-Aug-13	30-Aug-13	JEG	1320839	X
591-78-6	2-Hexanone (MBK)	< 46.6		µg/kg dry	46.6	11.9	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.7		µg/kg dry	4.7	2.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.7		µg/kg dry	4.7	1.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.7		µg/kg dry	4.7	3.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 46.6		µg/kg dry	46.6	15.1	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.3		µg/kg dry	9.3	2.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.7		µg/kg dry	4.7	2.9	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.7		µg/kg dry	4.7	2.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.7		µg/kg dry	4.7	3.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.7		µg/kg dry	4.7	4.5	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.7		µg/kg dry	4.7	3.5	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.7		µg/kg dry	4.7	2.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.7		µg/kg dry	4.7	4.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.7		µg/kg dry	4.7	4.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.7		µg/kg dry	4.7	3.5	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.7		µg/kg dry	4.7	3.3	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.7		µg/kg dry	4.7	3.7	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.7		µg/kg dry	4.7	4.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.7		µg/kg dry	4.7	3.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.7		µg/kg dry	4.7	1.9	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.7		µg/kg dry	4.7	2.1	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.7		µg/kg dry	4.7	1.5	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.7		µg/kg dry	4.7	4.6	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.7		µg/kg dry	4.7	4.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.3		µg/kg dry	9.3	9.0	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.7		µg/kg dry	4.7	3.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.3		µg/kg dry	9.3	8.6	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.7		µg/kg dry	4.7	4.3	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.7		µg/kg dry	4.7	3.7	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.7		µg/kg dry	4.7	1.6	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.7		µg/kg dry	4.7	1.5	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 46.6		µg/kg dry	46.6	26.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 93.1		µg/kg dry	93.1	76.2	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 23.3		µg/kg dry	23.3	11.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1860		µg/kg dry	1860	390	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*83*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*118*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 (2-4')	CTD3002.21	Soil	22-Aug-13 09:28	23-Aug-13
SB75690-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 1920	D	µg/kg dry	1920	488	10	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 1920	D	µg/kg dry	1920	532	10	"	"	"	"	"	X
120-12-7	Anthracene	< 1920	D	µg/kg dry	1920	489	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**8,000**	D	µg/kg dry	1920	514	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**9,620**	D	µg/kg dry	1920	523	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**11,000**	D	µg/kg dry	1920	417	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**3,490**	D	µg/kg dry	1920	534	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**5,620**	D	µg/kg dry	1920	680	10	"	"	"	"	"	X
218-01-9	Chrysene	**8,480**	D	µg/kg dry	1920	542	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1920	D	µg/kg dry	1920	496	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**22,600**	D	µg/kg dry	1920	537	10	"	"	"	"	"	X
86-73-7	Fluorene	< 1920	D	µg/kg dry	1920	534	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**4,390**	D	µg/kg dry	1920	532	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1920	D	µg/kg dry	1920	567	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 1920	D	µg/kg dry	1920	548	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 1920	D	µg/kg dry	1920	536	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**8,370**	D	µg/kg dry	1920	512	10	"	"	"	"	"	X
129-00-0	Pyrene	**17,300**	D	µg/kg dry	1920	464	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*62*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*69*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.0		mg/kg dry	30.0	1.5	1	CT ETPH	28-Aug-13	30-Aug-13	SEP	1320772	
68476-30-2	Fuel Oil #2	< 30.0		mg/kg dry	30.0	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 30.0		mg/kg dry	30.0	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.0		mg/kg dry	30.0	7.5	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.0		mg/kg dry	30.0	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.0		mg/kg dry	30.0	7.5	1	"	"	"	"	"	
	Unidentified	**365**		mg/kg dry	30.0	7.5	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	30.0	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**365**		mg/kg dry	30.0	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**365**		mg/kg dry	30.0	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*508*	S02		*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.73		mg/kg dry	1.73	0.498	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**10.1**		mg/kg dry	1.73	0.754	1	"	"	"	"	"	X
7440-39-3	Barium	**46.1**		mg/kg dry	1.15	0.371	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.576		mg/kg dry	0.576	0.169	1	"	"	"	"	"	X
7440-47-3	Chromium	**6.81**		mg/kg dry	1.15	0.249	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 (2-4')	CTD3002.21	Soil	22-Aug-13 09:28	23-Aug-13
SB75690-09				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	**0.210**		mg/kg dry	0.0323	0.0017	1	SW846 7471B	28-Aug-13	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**56.2**		mg/kg dry	1.73	0.637	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.73		mg/kg dry	1.73	0.495	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**3.52**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**3.52**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0163**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**85.4**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 (1.5-3.5')	CTD3002.21	Soil	22-Aug-13 13:45	23-Aug-13
SB75690-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 8.46 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.2		µg/kg dry	4.2	2.8	1	SW846 8260C	28-Aug-13	30-Aug-13	JEG	1320839	X
67-64-1	Acetone	< 41.6		µg/kg dry	41.6	31.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.2		µg/kg dry	4.2	3.7	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.2		µg/kg dry	4.2	2.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.2		µg/kg dry	4.2	2.7	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.2		µg/kg dry	4.2	1.4	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.2		µg/kg dry	4.2	1.6	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.2		µg/kg dry	4.2	2.9	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.3		µg/kg dry	8.3	7.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 41.6		µg/kg dry	41.6	35.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.2		µg/kg dry	4.2	2.1	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.2		µg/kg dry	4.2	4.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.2		µg/kg dry	4.2	3.0	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.3		µg/kg dry	8.3	5.9	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.2		µg/kg dry	4.2	4.1	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.2		µg/kg dry	4.2	2.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 8.3		µg/kg dry	8.3	5.9	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.2		µg/kg dry	4.2	2.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 8.3		µg/kg dry	8.3	2.1	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.2		µg/kg dry	4.2	2.5	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.2		µg/kg dry	4.2	3.7	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 8.3		µg/kg dry	8.3	7.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.2		µg/kg dry	4.2	2.0	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.2		µg/kg dry	4.2	2.8	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.2		µg/kg dry	4.2	4.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.2		µg/kg dry	4.2	3.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.2		µg/kg dry	4.2	4.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.2		µg/kg dry	4.2	2.8	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 8.3		µg/kg dry	8.3	7.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.2		µg/kg dry	4.2	4.1	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.2		µg/kg dry	4.2	2.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.2		µg/kg dry	4.2	2.1	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.2		µg/kg dry	4.2	1.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.2		µg/kg dry	4.2	3.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.2		µg/kg dry	4.2	2.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.2		µg/kg dry	4.2	2.1	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.2		µg/kg dry	4.2	1.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.2		µg/kg dry	4.2	2.6	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.2		µg/kg dry	4.2	2.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.2		µg/kg dry	4.2	1.2	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.2		µg/kg dry	4.2	2.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 (1.5-3.5') SB75690-10	CTD3002.21	Soil	22-Aug-13 13:45	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 8.46 g							
87-68-3	Hexachlorobutadiene	< 4.2		µg/kg dry	4.2	3.6	1	SW846 8260C	28-Aug-13	30-Aug-13	JEG	1320839	X
591-78-6	2-Hexanone (MBK)	< 41.6		µg/kg dry	41.6	10.6	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.2		µg/kg dry	4.2	2.1	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.2		µg/kg dry	4.2	1.7	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.2		µg/kg dry	4.2	3.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 41.6		µg/kg dry	41.6	13.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 8.3		µg/kg dry	8.3	2.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	**8.1**		µg/kg dry	4.2	2.6	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.2		µg/kg dry	4.2	2.5	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.2		µg/kg dry	4.2	3.1	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.2		µg/kg dry	4.2	4.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.2		µg/kg dry	4.2	3.2	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.2		µg/kg dry	4.2	2.4	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.2		µg/kg dry	4.2	3.7	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.2		µg/kg dry	4.2	3.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.2		µg/kg dry	4.2	3.1	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.2		µg/kg dry	4.2	2.9	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.2		µg/kg dry	4.2	3.3	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.2		µg/kg dry	4.2	3.6	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.2		µg/kg dry	4.2	3.2	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.2		µg/kg dry	4.2	1.7	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.2		µg/kg dry	4.2	1.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.2		µg/kg dry	4.2	1.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.2		µg/kg dry	4.2	4.1	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.2		µg/kg dry	4.2	3.9	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.3		µg/kg dry	8.3	8.1	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.2		µg/kg dry	4.2	2.8	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 8.3		µg/kg dry	8.3	7.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.2		µg/kg dry	4.2	3.9	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.2		µg/kg dry	4.2	3.3	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.2		µg/kg dry	4.2	1.5	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.2		µg/kg dry	4.2	1.3	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 41.6		µg/kg dry	41.6	23.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 83.2		µg/kg dry	83.2	68.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 20.8		µg/kg dry	20.8	10.7	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1660		µg/kg dry	1660	348	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*80*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 (1.5-3.5') SB75690-10	CTD3002.21	Soil	22-Aug-13 13:45	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 191		µg/kg dry	191	48.4	1	SW846 8270D	28-Aug-13	29-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 191		µg/kg dry	191	52.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 191		µg/kg dry	191	48.6	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**952**		µg/kg dry	191	51.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,120**		µg/kg dry	191	51.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,290**		µg/kg dry	191	41.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**414**		µg/kg dry	191	53.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**673**		µg/kg dry	191	67.5	1	"	"	"	"	"	X
218-01-9	Chrysene	**908**		µg/kg dry	191	53.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 191		µg/kg dry	191	49.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,990**		µg/kg dry	191	53.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 191		µg/kg dry	191	53.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**520**		µg/kg dry	191	52.8	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 191		µg/kg dry	191	56.2	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 191		µg/kg dry	191	54.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 191		µg/kg dry	191	53.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**558**		µg/kg dry	191	50.9	1	"	"	"	"	"	X
129-00-0	Pyrene	**1,550**		µg/kg dry	191	46.1	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*72*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*80*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.4		mg/kg dry	30.4	1.5	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-30-2	Fuel Oil #2	< 30.4		mg/kg dry	30.4	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 30.4		mg/kg dry	30.4	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.4		mg/kg dry	30.4	7.6	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.4		mg/kg dry	30.4	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.4		mg/kg dry	30.4	7.6	1	"	"	"	"	"	
	Unidentified	< 30.4		mg/kg dry	30.4	7.6	1	"	"	"	"	"	
	Other Oil	< 30.4		mg/kg dry	30.4	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 30.4		mg/kg dry	30.4	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 30.4		mg/kg dry	30.4	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*83*			*50-150 %*			"	"	"	"	"	
Re-analysis of Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 29.9		mg/kg dry	29.9	1.5	1	CT ETPH	30-Aug-13	03-Sep-13	SEP	1320928	
68476-30-2	Fuel Oil #2	< 29.9		mg/kg dry	29.9	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 29.9		mg/kg dry	29.9	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 29.9		mg/kg dry	29.9	7.5	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 (1.5-3.5') SB75690-10	CTD3002.21	Soil	22-Aug-13 13:45	23-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Re-analysis of Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
M09800000	Motor Oil	< 29.9		mg/kg dry	29.9	3.0	1	CT ETPH	30-Aug-13	03-Sep-13	SEP	1320928	
J00100000	Aviation Fuel	< 29.9		mg/kg dry	29.9	7.5	1	"	"	"	"	"	
	Unidentified	**47.4**		mg/kg dry	29.9	7.5	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	29.9	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**47.4**		mg/kg dry	29.9	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**47.4**		mg/kg dry	29.9	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*68*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.52		mg/kg dry	1.52	0.437	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**1.91**		mg/kg dry	1.52	0.661	1	"	"	"	"	"	X
7440-39-3	Barium	**52.6**		mg/kg dry	1.01	0.325	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.505		mg/kg dry	0.505	0.149	1	"	"	"	"	"	X
7440-47-3	Chromium	**7.48**		mg/kg dry	1.01	0.218	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.226**		mg/kg dry	0.0337	0.0017	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**109**		mg/kg dry	1.52	0.559	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.52		mg/kg dry	1.52	0.435	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**7.92**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**7.92**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0231**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**86.8**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-12 (2-4)	CTD3002.21	Soil	22-Aug-13 09:28	23-Aug-13
SB75690-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 9490	D	µg/kg dry	9490	2410	50	SW846 8270D	28-Aug-13	30-Aug-13	JG	1320770	X
208-96-8	Acenaphthylene	< 9490	D	µg/kg dry	9490	2630	50	"	"	"	"	"	X
120-12-7	Anthracene	< 9490	D	µg/kg dry	9490	2420	50	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**18,000**	D	µg/kg dry	9490	2540	50	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**16,400**	D	µg/kg dry	9490	2580	50	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**15,700**	D	µg/kg dry	9490	2060	50	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 9490	D	µg/kg dry	9490	2640	50	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**13,100**	D	µg/kg dry	9490	3360	50	"	"	"	"	"	X
218-01-9	Chrysene	**16,000**	D	µg/kg dry	9490	2680	50	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 9490	D	µg/kg dry	9490	2450	50	"	"	"	"	"	X
206-44-0	Fluoranthene	**50,100**	D	µg/kg dry	9490	2650	50	"	"	"	"	"	X
86-73-7	Fluorene	< 9490	D	µg/kg dry	9490	2640	50	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 9490	D	µg/kg dry	9490	2630	50	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 9490	D	µg/kg dry	9490	2800	50	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 9490	D	µg/kg dry	9490	2710	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 9490	D	µg/kg dry	9490	2650	50	"	"	"	"	"	X
85-01-8	Phenanthrene	**39,800**	D	µg/kg dry	9490	2530	50	"	"	"	"	"	X
129-00-0	Pyrene	**35,200**	D	µg/kg dry	9490	2290	50	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*0*	S01		*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*0*	S01		*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.1		mg/kg dry	30.1	1.5	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320772	
68476-30-2	Fuel Oil #2	< 30.1		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 30.1		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.1		mg/kg dry	30.1	7.5	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.1		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.1		mg/kg dry	30.1	7.5	1	"	"	"	"	"	
	Unidentified	**550**		mg/kg dry	30.1	7.5	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**550**		mg/kg dry	30.1	3.0	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**550**		mg/kg dry	30.1	2.8	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*845*	S02		*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**15.5**		mg/kg dry	1.47	0.423	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	< 1.47		mg/kg dry	1.47	0.640	1	"	"	"	"	"	X
7440-39-3	Barium	**53.9**		mg/kg dry	0.979	0.315	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.489		mg/kg dry	0.489	0.144	1	"	"	"	"	"	X
7440-47-3	Chromium	**7.24**		mg/kg dry	0.979	0.211	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-12 (2-4) SB75690-11	CTD3002.21	Soil	22-Aug-13 09:28	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	**1.58**	GS1, D	mg/kg dry	0.326	0.0167	10	SW846 7471B	28-Aug-13	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**160**		mg/kg dry	1.47	0.541	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.47		mg/kg dry	1.47	0.421	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.53**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.53**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0279**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.00026**		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.163**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**87.6**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320593	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB-1	CTD3002.21	Trip Blank	22-Aug-13 07:00	23-Aug-13
SB75690-12				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.93	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.63	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.03	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	1.20	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.34	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.25	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.49	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.55	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB-1	CTD3002.21	Trip Blank	22-Aug-13 07:00	23-Aug-13
SB75690-12				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.93	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.69	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.77	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*102*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-1 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 07:15	23-Aug-13
SB75690-13				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 9.02 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.1		µg/kg dry	5.1	3.4	1	SW846 8260C	29-Aug-13	29-Aug-13	JEG	1320706	X
67-64-1	Acetone	< 51.2		µg/kg dry	51.2	38.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.1		µg/kg dry	5.1	4.6	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.1		µg/kg dry	5.1	2.7	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.1		µg/kg dry	5.1	3.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.1		µg/kg dry	5.1	1.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.1		µg/kg dry	5.1	1.9	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.1		µg/kg dry	5.1	3.5	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.2		µg/kg dry	10.2	9.2	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 51.2		µg/kg dry	51.2	43.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.1		µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.1		µg/kg dry	5.1	5.0	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.1		µg/kg dry	5.1	3.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.2		µg/kg dry	10.2	7.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.1		µg/kg dry	5.1	5.1	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.1		µg/kg dry	5.1	2.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.2		µg/kg dry	10.2	7.2	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.1		µg/kg dry	5.1	2.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.2		µg/kg dry	10.2	2.6	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.1		µg/kg dry	5.1	3.1	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.1		µg/kg dry	5.1	4.6	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.2		µg/kg dry	10.2	9.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.1		µg/kg dry	5.1	2.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.1		µg/kg dry	5.1	3.5	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.1		µg/kg dry	5.1	5.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.1		µg/kg dry	5.1	4.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.1		µg/kg dry	5.1	5.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.1		µg/kg dry	5.1	3.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.2		µg/kg dry	10.2	8.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.1		µg/kg dry	5.1	5.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.1		µg/kg dry	5.1	2.9	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.1		µg/kg dry	5.1	2.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.1		µg/kg dry	5.1	2.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.1		µg/kg dry	5.1	4.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.1		µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.1		µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.1		µg/kg dry	5.1	2.1	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.1		µg/kg dry	5.1	3.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.1		µg/kg dry	5.1	2.8	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.1		µg/kg dry	5.1	1.4	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.1		µg/kg dry	5.1	3.1	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-1 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 07:15	23-Aug-13
SB75690-13				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 9.02 g							
87-68-3	Hexachlorobutadiene	< 5.1		µg/kg dry	5.1	4.4	1	SW846 8260C	29-Aug-13	29-Aug-13	JEG	1320706	X
591-78-6	2-Hexanone (MBK)	< 51.2		µg/kg dry	51.2	13.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.1		µg/kg dry	5.1	2.6	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.1		µg/kg dry	5.1	2.1	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.1		µg/kg dry	5.1	3.7	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 51.2		µg/kg dry	51.2	16.6	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.2		µg/kg dry	10.2	2.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.1		µg/kg dry	5.1	3.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.1		µg/kg dry	5.1	3.1	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.1		µg/kg dry	5.1	3.8	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.1		µg/kg dry	5.1	4.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.1		µg/kg dry	5.1	3.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.1		µg/kg dry	5.1	2.9	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.1		µg/kg dry	5.1	4.6	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.1		µg/kg dry	5.1	4.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.1		µg/kg dry	5.1	3.8	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.1		µg/kg dry	5.1	3.6	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.1		µg/kg dry	5.1	4.1	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.1		µg/kg dry	5.1	4.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.1		µg/kg dry	5.1	3.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.1		µg/kg dry	5.1	2.1	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.1		µg/kg dry	5.1	2.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.1		µg/kg dry	5.1	1.7	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.1		µg/kg dry	5.1	5.1	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.1		µg/kg dry	5.1	4.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.2		µg/kg dry	10.2	9.9	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.1		µg/kg dry	5.1	3.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.2		µg/kg dry	10.2	9.5	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.1		µg/kg dry	5.1	4.8	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.1		µg/kg dry	5.1	4.0	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.1		µg/kg dry	5.1	1.8	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.1		µg/kg dry	5.1	1.6	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 51.2		µg/kg dry	51.2	29.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 102		µg/kg dry	102	83.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.6		µg/kg dry	25.6	13.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 2050		µg/kg dry	2050	428	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-1 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 07:15	23-Aug-13
SB75690-13				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 425	D	µg/kg dry	425	108	2	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
208-96-8	Acenaphthylene	< 425	D	µg/kg dry	425	118	2	"	"	"	"	"	X
120-12-7	Anthracene	< 425	D	µg/kg dry	425	108	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**544**	D	µg/kg dry	425	114	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**593**	D	µg/kg dry	425	116	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**572**	D	µg/kg dry	425	92.2	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 425	D	µg/kg dry	425	118	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**524**	D	µg/kg dry	425	150	2	"	"	"	"	"	X
218-01-9	Chrysene	**609**	D	µg/kg dry	425	120	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 425	D	µg/kg dry	425	110	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,380**	D	µg/kg dry	425	119	2	"	"	"	"	"	X
86-73-7	Fluorene	< 425	D	µg/kg dry	425	118	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**437**	D	µg/kg dry	425	118	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 425	D	µg/kg dry	425	125	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 425	D	µg/kg dry	425	121	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 425	D	µg/kg dry	425	119	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**585**	D	µg/kg dry	425	113	2	"	"	"	"	"	X
129-00-0	Pyrene	**1,060**	D	µg/kg dry	425	103	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*51*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*53*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 25.4		µg/kg dry	25.4	19.0	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 25.4		µg/kg dry	25.4	22.9	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 25.4		µg/kg dry	25.4	16.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 25.4		µg/kg dry	25.4	15.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 25.4		µg/kg dry	25.4	13.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 25.4		µg/kg dry	25.4	21.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	**36.8**	P	µg/kg dry	25.4	12.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 25.4		µg/kg dry	25.4	23.6	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 25.4		µg/kg dry	25.4	10.5	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*45*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 33.4		mg/kg dry	33.4	1.7	1	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-1 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 07:15	23-Aug-13
SB75690-13				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 33.4		mg/kg dry	33.4	3.3	1	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	
68476-31-3	Fuel Oil #4	< 33.4		mg/kg dry	33.4	3.3	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 33.4		mg/kg dry	33.4	8.4	1	"	"	"	"	"	
M09800000	Motor Oil	< 33.4		mg/kg dry	33.4	3.3	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 33.4		mg/kg dry	33.4	8.4	1	"	"	"	"	"	
	Unidentified	**196**		mg/kg dry	33.4	8.4	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	33.4	3.3	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**196**		mg/kg dry	33.4	3.3	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**196**		mg/kg dry	33.4	3.1	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*72*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**3.09**		mg/kg dry	1.67	0.481	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**1.75**		mg/kg dry	1.67	0.729	1	"	"	"	"	"	X
7440-39-3	Barium	**93.8**		mg/kg dry	1.11	0.359	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.861**		mg/kg dry	0.557	0.164	1	"	"	"	"	"	X
7440-47-3	Chromium	**9.67**		mg/kg dry	1.11	0.241	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.209**		mg/kg dry	0.0390	0.0020	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**37.8**		mg/kg dry	1.67	0.616	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.67		mg/kg dry	1.67	0.479	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.29**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.29**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0229**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.0162**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**76.8**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320630	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-2 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 14:45	23-Aug-13
SB75690-14				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 8.97 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 125	D	µg/kg dry	125	83.7	50	SW846 8260C	30-Aug-13	30-Aug-13	GMA	1320952	X
67-64-1	Acetone	< 1250	D	µg/kg dry	1250	943	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 125	D	µg/kg dry	125	112	50	"	"	"	"	"	X
71-43-2	Benzene	< 125	D	µg/kg dry	125	65.9	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 125	D	µg/kg dry	125	80.1	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 125	D	µg/kg dry	125	41.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 125	D	µg/kg dry	125	47.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 125	D	µg/kg dry	125	86.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 251	D	µg/kg dry	251	226	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1250	D	µg/kg dry	1250	1080	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 125	D	µg/kg dry	125	62.6	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 125	D	µg/kg dry	125	122	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 125	D	µg/kg dry	125	90.7	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 251	D	µg/kg dry	251	179	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 125	D	µg/kg dry	125	125	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 125	D	µg/kg dry	125	70.1	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 251	D	µg/kg dry	251	178	50	"	"	"	"	"	X
67-66-3	Chloroform	< 125	D	µg/kg dry	125	61.4	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 251	D	µg/kg dry	251	63.1	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 125	D	µg/kg dry	125	76.4	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 125	D	µg/kg dry	125	112	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 251	D	µg/kg dry	251	237	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 125	D	µg/kg dry	125	60.2	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 125	D	µg/kg dry	125	85.2	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 125	D	µg/kg dry	125	125	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 125	D	µg/kg dry	125	101	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 125	D	µg/kg dry	125	125	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 125	D	µg/kg dry	125	84.7	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 251	D	µg/kg dry	251	212	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 125	D	µg/kg dry	125	123	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 125	D	µg/kg dry	125	70.1	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 125	D	µg/kg dry	125	62.5	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 125	D	µg/kg dry	125	52.7	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 125	D	µg/kg dry	125	104	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 125	D	µg/kg dry	125	63.9	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 125	D	µg/kg dry	125	63.1	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 125	D	µg/kg dry	125	50.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 125	D	µg/kg dry	125	77.4	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 125	D	µg/kg dry	125	68.4	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 125	D	µg/kg dry	125	35.5	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 125	D	µg/kg dry	125	76.4	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-2 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 14:45	23-Aug-13
SB75690-14				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			VOC8										
Prepared by method SW846 5035A Soil (high level)						Initial weight: 8.97 g							
87-68-3	Hexachlorobutadiene	< 125	D	µg/kg dry	125	108	50	SW846 8260C	30-Aug-13	30-Aug-13	GMA	1320952	X
591-78-6	2-Hexanone (MBK)	< 1250	D	µg/kg dry	1250	320	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 125	D	µg/kg dry	125	63.0	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 125	D	µg/kg dry	125	51.9	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 125	D	µg/kg dry	125	91.2	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 1250	D	µg/kg dry	1250	408	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 251	D	µg/kg dry	251	63.7	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 125	D	µg/kg dry	125	77.9	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 125	D	µg/kg dry	125	75.3	50	"	"	"	"	"	X
100-42-5	Styrene	< 125	D	µg/kg dry	125	92.9	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 125	D	µg/kg dry	125	120	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 125	D	µg/kg dry	125	95.4	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 125	D	µg/kg dry	125	71.8	50	"	"	"	"	"	X
108-88-3	Toluene	< 125	D	µg/kg dry	125	112	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 125	D	µg/kg dry	125	109	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 125	D	µg/kg dry	125	94.4	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 125	D	µg/kg dry	125	88.8	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 125	D	µg/kg dry	125	101	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 125	D	µg/kg dry	125	108	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 125	D	µg/kg dry	125	96.1	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 125	D	µg/kg dry	125	52.2	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 125	D	µg/kg dry	125	56.7	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 125	D	µg/kg dry	125	41.0	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 125	D	µg/kg dry	125	124	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 125	D	µg/kg dry	125	118	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 251	D	µg/kg dry	251	243	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 125	D	µg/kg dry	125	85.7	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 251	D	µg/kg dry	251	232	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 125	D	µg/kg dry	125	117	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 125	D	µg/kg dry	125	99.0	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 125	D	µg/kg dry	125	43.8	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 125	D	µg/kg dry	125	40.4	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 1250	D	µg/kg dry	1250	710	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 2510	D	µg/kg dry	2510	2050	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 627	D	µg/kg dry	627	321	50	"	"	"	"	"	X
64-17-5	Ethanol	< 50200	D	µg/kg dry	50200	10500	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*105*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*90*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-2 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 14:45	23-Aug-13
SB75690-14				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 436	D	µg/kg dry	436	111	2	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
208-96-8	Acenaphthylene	< 436	D	µg/kg dry	436	121	2	"	"	"	"	"	X
120-12-7	Anthracene	< 436	D	µg/kg dry	436	111	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**824**	D	µg/kg dry	436	117	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**860**	D	µg/kg dry	436	119	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**853**	D	µg/kg dry	436	94.8	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**532**	D	µg/kg dry	436	121	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**645**	D	µg/kg dry	436	155	2	"	"	"	"	"	X
218-01-9	Chrysene	**866**	D	µg/kg dry	436	123	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 436	D	µg/kg dry	436	113	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**1,770**	D	µg/kg dry	436	122	2	"	"	"	"	"	X
86-73-7	Fluorene	< 436	D	µg/kg dry	436	121	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**601**	D	µg/kg dry	436	121	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 436	D	µg/kg dry	436	129	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 436	D	µg/kg dry	436	125	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 436	D	µg/kg dry	436	122	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**720**	D	µg/kg dry	436	116	2	"	"	"	"	"	X
129-00-0	Pyrene	**1,520**	D	µg/kg dry	436	105	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*55*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*57*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 34.3		mg/kg dry	34.3	1.7	1	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	
68476-30-2	Fuel Oil #2	< 34.3		mg/kg dry	34.3	3.4	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 34.3		mg/kg dry	34.3	3.4	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 34.3		mg/kg dry	34.3	8.6	1	"	"	"	"	"	
M09800000	Motor Oil	< 34.3		mg/kg dry	34.3	3.4	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 34.3		mg/kg dry	34.3	8.6	1	"	"	"	"	"	
	Unidentified	**111**		mg/kg dry	34.3	8.6	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	34.3	3.4	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**111**		mg/kg dry	34.3	3.4	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**111**		mg/kg dry	34.3	3.2	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*74*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**39.1**		mg/kg dry	1.69	0.488	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**4.20**		mg/kg dry	1.69	0.738	1	"	"	"	"	"	X
7440-39-3	Barium	**65.5**		mg/kg dry	1.13	0.363	1	"	"	"	"	"	X
7440-43-9	Cadmium	**1.40**		mg/kg dry	0.564	0.166	1	"	"	"	"	"	X
7440-47-3	Chromium	**7.00**		mg/kg dry	1.13	0.244	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-2 (0.5-1.5)	CTD3002.21	Soil	22-Aug-13 14:45	23-Aug-13
SB75690-14				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	**2.86**	GS1, D	mg/kg dry	0.344	0.0177	10	SW846 7471B	28-Aug-13	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**442**		mg/kg dry	1.69	0.624	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.69		mg/kg dry	1.69	0.485	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.14**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.14**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0112**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.00022**		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.0227**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**76.1**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320630	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-3 (1-2')	CTD3002.21	Soil	22-Aug-13 07:55	23-Aug-13
SB75690-15				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.93 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.9		µg/kg dry	4.9	3.3	1	SW846 8260C	29-Aug-13	29-Aug-13	JEG	1320706	X
67-64-1	Acetone	< 49.3		µg/kg dry	49.3	37.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.9		µg/kg dry	4.9	4.4	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.9		µg/kg dry	4.9	2.6	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.9		µg/kg dry	4.9	3.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.9		µg/kg dry	4.9	1.6	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.9		µg/kg dry	4.9	1.9	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.9		µg/kg dry	4.9	3.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.9		µg/kg dry	9.9	8.9	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 49.3		µg/kg dry	49.3	42.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.9		µg/kg dry	4.9	2.5	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.9		µg/kg dry	4.9	4.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.9		µg/kg dry	4.9	3.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.9		µg/kg dry	9.9	7.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.9		µg/kg dry	4.9	4.9	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.9		µg/kg dry	4.9	2.8	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.9		µg/kg dry	9.9	7.0	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.9		µg/kg dry	4.9	2.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.9		µg/kg dry	9.9	2.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.9		µg/kg dry	4.9	3.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.9		µg/kg dry	4.9	4.4	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.9		µg/kg dry	9.9	9.3	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.9		µg/kg dry	4.9	2.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.9		µg/kg dry	4.9	3.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.9		µg/kg dry	4.9	4.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.9		µg/kg dry	4.9	4.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.9		µg/kg dry	4.9	4.9	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.9		µg/kg dry	4.9	3.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.9		µg/kg dry	9.9	8.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.9		µg/kg dry	4.9	4.8	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.9		µg/kg dry	4.9	2.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.9		µg/kg dry	4.9	2.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.9		µg/kg dry	4.9	2.1	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.9		µg/kg dry	4.9	4.1	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.9		µg/kg dry	4.9	2.5	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.9		µg/kg dry	4.9	2.5	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.9		µg/kg dry	4.9	2.0	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.9		µg/kg dry	4.9	3.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.9		µg/kg dry	4.9	2.7	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.9		µg/kg dry	4.9	1.4	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.9		µg/kg dry	4.9	3.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-3 (1-2')	CTD3002.21	Soil	22-Aug-13 07:55	23-Aug-13
SB75690-15				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.93 g							
87-68-3	Hexachlorobutadiene	< 4.9		µg/kg dry	4.9	4.2	1	SW846 8260C	29-Aug-13	29-Aug-13	JEG	1320706	X
591-78-6	2-Hexanone (MBK)	< 49.3		µg/kg dry	49.3	12.6	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.9		µg/kg dry	4.9	2.5	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.9		µg/kg dry	4.9	2.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.9		µg/kg dry	4.9	3.6	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 49.3		µg/kg dry	49.3	16.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.9		µg/kg dry	9.9	2.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.9		µg/kg dry	4.9	3.1	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.9		µg/kg dry	4.9	3.0	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.9		µg/kg dry	4.9	3.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.9		µg/kg dry	4.9	4.7	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.9		µg/kg dry	4.9	3.7	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.9		µg/kg dry	4.9	2.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.9		µg/kg dry	4.9	4.4	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.9		µg/kg dry	4.9	4.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.9		µg/kg dry	4.9	3.7	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.9		µg/kg dry	4.9	3.5	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.9		µg/kg dry	4.9	3.9	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.9		µg/kg dry	4.9	4.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.9		µg/kg dry	4.9	3.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.9		µg/kg dry	4.9	2.1	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.9		µg/kg dry	4.9	2.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.9		µg/kg dry	4.9	1.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.9		µg/kg dry	4.9	4.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.9		µg/kg dry	4.9	4.6	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.9		µg/kg dry	9.9	9.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.9		µg/kg dry	4.9	3.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.9		µg/kg dry	9.9	9.1	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.9		µg/kg dry	4.9	4.6	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.9		µg/kg dry	4.9	3.9	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.9		µg/kg dry	4.9	1.7	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.9		µg/kg dry	4.9	1.6	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 49.3		µg/kg dry	49.3	27.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 98.6		µg/kg dry	98.6	80.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 24.6		µg/kg dry	24.6	12.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1970		µg/kg dry	1970	412	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*110*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-3 (1-2')	CTD3002.21	Soil	22-Aug-13 07:55	23-Aug-13
SB75690-15				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 20200	D	µg/kg dry	20200	5130	100	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
208-96-8	Acenaphthylene	< 20200	D	µg/kg dry	20200	5600	100	"	"	"	"	"	X
120-12-7	Anthracene	**36,500**	D	µg/kg dry	20200	5150	100	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**57,500**	D	µg/kg dry	20200	5410	100	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**53,800**	D	µg/kg dry	20200	5500	100	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**41,700**	D	µg/kg dry	20200	4390	100	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**29,000**	D	µg/kg dry	20200	5620	100	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**38,500**	D	µg/kg dry	20200	7150	100	"	"	"	"	"	X
218-01-9	Chrysene	**46,900**	D	µg/kg dry	20200	5700	100	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 20200	D	µg/kg dry	20200	5220	100	"	"	"	"	"	X
206-44-0	Fluoranthene	**162,000**	D	µg/kg dry	20200	5640	100	"	"	"	"	"	X
86-73-7	Fluorene	< 20200	D	µg/kg dry	20200	5620	100	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**29,400**	D	µg/kg dry	20200	5600	100	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 20200	D	µg/kg dry	20200	5960	100	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 20200	D	µg/kg dry	20200	5770	100	"	"	"	"	"	X
91-20-3	Naphthalene	< 20200	D	µg/kg dry	20200	5640	100	"	"	"	"	"	X
85-01-8	Phenanthrene	**131,000**	D	µg/kg dry	20200	5390	100	"	"	"	"	"	X
129-00-0	Pyrene	**134,000**	D	µg/kg dry	20200	4880	100	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*0*	S01		*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*0*	S01		*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons			GS1										
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 159	D	mg/kg dry	159	8.0	5	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	
68476-30-2	Fuel Oil #2	< 159	D	mg/kg dry	159	15.9	5	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 159	D	mg/kg dry	159	15.9	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 159	D	mg/kg dry	159	39.8	5	"	"	"	"	"	
M09800000	Motor Oil	< 159	D	mg/kg dry	159	15.9	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 159	D	mg/kg dry	159	39.8	5	"	"	"	"	"	
	Unidentified	**3,400**	D	mg/kg dry	159	39.8	5	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	159	15.9	5	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**3,400**	D	mg/kg dry	159	15.9	5	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**3,400**	D	mg/kg dry	159	14.7	5	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*4840*	S02		*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**62.2**		mg/kg dry	1.57	0.452	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**5.93**		mg/kg dry	1.57	0.685	1	"	"	"	"	"	X
7440-39-3	Barium	**67.4**		mg/kg dry	1.05	0.337	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.960**		mg/kg dry	0.524	0.154	1	"	"	"	"	"	X
7440-47-3	Chromium	**6.69**		mg/kg dry	1.05	0.226	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-3 (1-2')	CTD3002.21	Soil	22-Aug-13 07:55	23-Aug-13
SB75690-15				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	**1.14**	GS1, D	mg/kg dry	0.348	0.0179	10	SW846 7471B	28-Aug-13	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**1,340**		mg/kg dry	1.57	0.579	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.57		mg/kg dry	1.57	0.450	1	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**8.30**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**8.30**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0421**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.00024**		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	**0.406**		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**82.1**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320630	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-4 (0-1')	CTD3002.21	Soil	22-Aug-13 07:23	23-Aug-13
SB75690-16				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.65 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.8		µg/kg dry	4.8	3.2	1	SW846 8260C	29-Aug-13	29-Aug-13	JEG	1320706	X
67-64-1	Acetone	< 47.6		µg/kg dry	47.6	35.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.8		µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.8		µg/kg dry	4.8	3.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.8		µg/kg dry	4.8	1.8	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.8		µg/kg dry	4.8	3.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.5		µg/kg dry	9.5	8.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 47.6		µg/kg dry	47.6	40.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.8		µg/kg dry	4.8	3.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.5		µg/kg dry	9.5	6.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.5		µg/kg dry	9.5	6.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.8		µg/kg dry	4.8	2.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.5		µg/kg dry	9.5	2.4	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.5		µg/kg dry	9.5	9.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.8		µg/kg dry	4.8	2.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.8		µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.8		µg/kg dry	4.8	3.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.8		µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.5		µg/kg dry	9.5	8.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.8		µg/kg dry	4.8	3.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.8		µg/kg dry	4.8	1.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.8		µg/kg dry	4.8	2.6	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.8		µg/kg dry	4.8	1.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-4 (0-1')	CTD3002.21	Soil	22-Aug-13 07:23	23-Aug-13
SB75690-16				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.65 g							
87-68-3	Hexachlorobutadiene	< 4.8		µg/kg dry	4.8	4.1	1	SW846 8260C	29-Aug-13	29-Aug-13	JEG	1320706	X
591-78-6	2-Hexanone (MBK)	< 47.6		µg/kg dry	47.6	12.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.8		µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 47.6		µg/kg dry	47.6	15.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.5		µg/kg dry	9.5	2.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.8		µg/kg dry	4.8	3.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.8		µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.8		µg/kg dry	4.8	4.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.8		µg/kg dry	4.8	3.4	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.8		µg/kg dry	4.8	3.8	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.8		µg/kg dry	4.8	4.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.8		µg/kg dry	4.8	2.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.8		µg/kg dry	4.8	4.5	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.5		µg/kg dry	9.5	9.2	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.8		µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.5		µg/kg dry	9.5	8.8	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.8		µg/kg dry	4.8	4.4	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.8		µg/kg dry	4.8	3.8	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.8		µg/kg dry	4.8	1.7	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.8		µg/kg dry	4.8	1.5	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 47.6		µg/kg dry	47.6	26.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 95.1		µg/kg dry	95.1	77.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 23.8		µg/kg dry	23.8	12.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1900		µg/kg dry	1900	398	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*91*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*105*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*116*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-4 (0-1')	CTD3002.21	Soil	22-Aug-13 07:23	23-Aug-13
SB75690-16				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270			R01										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 389	D	µg/kg dry	389	98.9	2	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
208-96-8	Acenaphthylene	< 389	D	µg/kg dry	389	108	2	"	"	"	"	"	X
120-12-7	Anthracene	< 389	D	µg/kg dry	389	99.1	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,080**	D	µg/kg dry	389	104	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1,030**	D	µg/kg dry	389	106	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,110**	D	µg/kg dry	389	84.5	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**618**	D	µg/kg dry	389	108	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**717**	D	µg/kg dry	389	138	2	"	"	"	"	"	X
218-01-9	Chrysene	**1,100**	D	µg/kg dry	389	110	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 389	D	µg/kg dry	389	100	2	"	"	"	"	"	X
206-44-0	Fluoranthene	**2,850**	D	µg/kg dry	389	109	2	"	"	"	"	"	X
86-73-7	Fluorene	< 389	D	µg/kg dry	389	108	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**705**	D	µg/kg dry	389	108	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 389	D	µg/kg dry	389	115	2	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 389	D	µg/kg dry	389	111	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 389	D	µg/kg dry	389	109	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,620**	D	µg/kg dry	389	104	2	"	"	"	"	"	X
129-00-0	Pyrene	**2,170**	D	µg/kg dry	389	94.0	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*71*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*75*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 23.1		µg/kg dry	23.1	17.2	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 23.1		µg/kg dry	23.1	20.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.1		µg/kg dry	23.1	14.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.1		µg/kg dry	23.1	13.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.1		µg/kg dry	23.1	12.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.1		µg/kg dry	23.1	19.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.1		µg/kg dry	23.1	14.3	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.1		µg/kg dry	23.1	21.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.1		µg/kg dry	23.1	9.52	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 31.1		mg/kg dry	31.1	1.6	1	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SED-4 (0-1')	CTD3002.21	Soil	22-Aug-13 07:23	23-Aug-13
SB75690-16				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
68476-30-2	Fuel Oil #2	< 31.1		mg/kg dry	31.1	3.1	1	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	
68476-31-3	Fuel Oil #4	< 31.1		mg/kg dry	31.1	3.1	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 31.1		mg/kg dry	31.1	7.8	1	"	"	"	"	"	
M09800000	Motor Oil	< 31.1		mg/kg dry	31.1	3.1	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 31.1		mg/kg dry	31.1	7.8	1	"	"	"	"	"	
	Unidentified	**127**		mg/kg dry	31.1	7.8	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	31.1	3.1	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**127**		mg/kg dry	31.1	3.1	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**127**		mg/kg dry	31.1	2.9	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*79*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	**13.4**	R01, D	mg/kg dry	8.37	2.41	5	SW846 6010C	28-Aug-13	30-Aug-13	TBC	1320707	X
7440-38-2	Arsenic	< 8.37	R01, D	mg/kg dry	8.37	3.65	5	"	"	"	"	"	X
7440-39-3	Barium	**57.2**	R01, D	mg/kg dry	5.58	1.80	5	"	"	"	"	"	X
7440-43-9	Cadmium	< 2.79	R01, D	mg/kg dry	2.79	0.820	5	"	"	"	"	"	X
7440-47-3	Chromium	**5.58**	R01, D	mg/kg dry	5.58	1.21	5	"	"	"	"	"	X
7439-97-6	Mercury	< 0.348	GS1, D	mg/kg dry	0.348	0.0179	10	SW846 7471B	"	30-Aug-13	JLM	1320708	X
7439-92-1	Lead	**126**	R01, D	mg/kg dry	8.37	3.09	5	SW846 6010C	"	30-Aug-13	TBC	1320707	X
7782-49-2	Selenium	< 8.37	R01, D	mg/kg dry	8.37	2.40	5	"	"	"	"	"	X
SPLP Metals by EPA 1312 & 6000/7000 Series Methods													
SPLP Extraction for Hg													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	SW846 1312	27-Aug-13	28-Aug-13	CMB	1320669	X
	Final pH of leachate	**2.97**		N/A			1	"	"	"	"	"	
SPLP Extraction for Metals													
Prepared by method SW846 1312													
	SPLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**2.97**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1312/6010C	28-Aug-13	29-Aug-13	EDT	1320692	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	
7440-39-3	Barium	**0.0203**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1312/7470A	"	29-Aug-13	JLM	1320693	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1312/6010C	"	29-Aug-13	EDT	1320692	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	
General Chemistry Parameters													
	% Solids	**84.7**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320630	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-1	CTD3002.21	Deionized Water	22-Aug-13 08:40	23-Aug-13
SB75690-17				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.93	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.63	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.03	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	1.20	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.34	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.25	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.49	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.55	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-1	CTD3002.21	Deionized Water	22-Aug-13 08:40	23-Aug-13
SB75690-17				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.93	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.69	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.77	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
SVOCs by SIM													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-1	CTD3002.21	Deionized Water	22-Aug-13 08:40	23-Aug-13
SB75690-17				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
SVOCs by SIM													
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 0.050		µg/l	0.050	0.007	1	SW846 8270D SIM	28-Aug-13	29-Aug-13	ML/	1320679	X
208-96-8	Acenaphthylene	< 0.050		µg/l	0.050	0.013	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 0.500		µg/l	0.500	0.010	1	"	"	"	"	"	
120-12-7	Anthracene	< 0.050		µg/l	0.050	0.013	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 0.050		µg/l	0.050	0.036	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 0.050		µg/l	0.050	0.036	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 0.050		µg/l	0.050	0.031	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 0.050		µg/l	0.050	0.026	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 0.050		µg/l	0.050	0.026	1	"	"	"	"	"	X
218-01-9	Chrysene	< 0.050		µg/l	0.050	0.022	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 0.050		µg/l	0.050	0.030	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 0.050		µg/l	0.050	0.017	1	"	"	"	"	"	X
86-73-7	Fluorene	< 0.050		µg/l	0.050	0.012	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.050		µg/l	0.050	0.029	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 0.500		µg/l	0.500	0.008	1	"	"	"	"	"	
91-20-3	Naphthalene	< 0.500		µg/l	0.500	0.016	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 0.050		µg/l	0.050	0.019	1	"	"	"	"	"	X
129-00-0	Pyrene	< 0.050		µg/l	0.050	0.017	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*86*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*101*			*30-130 %*			"	"	"	"	"	
205440-82-0	*Benzo (e) pyrene-d12*	*93*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.208		µg/l	0.208	0.0766	1	SW846 8082A	28-Aug-13	29-Aug-13	IMR	1320771	X
11104-28-2	Aroclor-1221	< 0.208		µg/l	0.208	0.132	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 0.208		µg/l	0.208	0.108	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 0.208		µg/l	0.208	0.124	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 0.208		µg/l	0.208	0.108	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 0.208		µg/l	0.208	0.136	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 0.208		µg/l	0.208	0.114	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 0.208		µg/l	0.208	0.144	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 0.208		µg/l	0.208	0.0859	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*105*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*110*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-1	CTD3002.21	Deionized Water	22-Aug-13 08:40	23-Aug-13
SB75690-17				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3510C													
8006-61-9	Gasoline	< 0.2		mg/l	0.2	0.01	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320678	
68476-30-2	Fuel Oil #2	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 0.2		mg/l	0.2	0.05	1	"	"	"	"	"	
M09800000	Motor Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 0.2		mg/l	0.2	0.05	1	"	"	"	"	"	
	Unidentified	< 0.2		mg/l	0.2	0.05	1	"	"	"	"	"	
	Other Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*81*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1320621	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	28-Aug-13	29-Aug-13	EDT	1320709	X
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0018	1	"	"	"	"	"	X
7440-39-3	Barium	< 0.0050		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	28-Aug-13	29-Aug-13	JLM	1320711	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4/MW-1	CTD3002.21	Ground Water	22-Aug-13 14:39	23-Aug-13
SB75690-18				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.93	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.63	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.03	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	1.20	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.34	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.25	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.49	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.55	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4/MW-1	CTD3002.21	Ground Water	22-Aug-13 14:39	23-Aug-13
SB75690-18				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.93	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.69	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.77	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4/MW-1	CTD3002.21	Ground Water	22-Aug-13 14:39	23-Aug-13
SB75690-18				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3510C													
8006-61-9	Gasoline	< 0.2		mg/l	0.2	0.01	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320678	
68476-30-2	Fuel Oil #2	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
M09800000	Motor Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
	Unidentified	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
	Other Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*70*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1320621	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	28-Aug-13	29-Aug-13	EDT	1320709	X
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0018	1	"	"	"	"	"	X
7440-39-3	Barium	**0.278**		mg/l	0.0050	0.0007	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	28-Aug-13	29-Aug-13	JLM	1320711	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11/MW-3	CTD3002.21	Ground Water	22-Aug-13 13:48	23-Aug-13
SB75690-19				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 20.0	D	µg/l	20.0	12.9	20	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
67-64-1	Acetone	< 200	D	µg/l	200	51.1	20	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 10.0	D	µg/l	10.0	9.50	20	"	"	"	"	"	X
71-43-2	Benzene	< 20.0	D	µg/l	20.0	13.4	20	"	"	"	"	"	X
108-86-1	Bromobenzene	< 20.0	D	µg/l	20.0	14.4	20	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 20.0	D	µg/l	20.0	14.2	20	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 10.0	D	µg/l	10.0	9.58	20	"	"	"	"	"	X
75-25-2	Bromoform	< 20.0	D	µg/l	20.0	12.1	20	"	"	"	"	"	X
74-83-9	Bromomethane	< 40.0	D	µg/l	40.0	22.8	20	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 200	D	µg/l	200	38.7	20	"	"	"	"	"	X
104-51-8	n-Butylbenzene	**25.2**	D	µg/l	20.0	11.2	20	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 20.0	D	µg/l	20.0	16.4	20	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 20.0	D	µg/l	20.0	14.9	20	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 40.0	D	µg/l	40.0	12.5	20	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 20.0	D	µg/l	20.0	11.0	20	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 20.0	D	µg/l	20.0	13.1	20	"	"	"	"	"	X
75-00-3	Chloroethane	< 40.0	D	µg/l	40.0	20.7	20	"	"	"	"	"	X
67-66-3	Chloroform	< 20.0	D	µg/l	20.0	13.8	20	"	"	"	"	"	X
74-87-3	Chloromethane	< 40.0	D	µg/l	40.0	29.5	20	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 20.0	D	µg/l	20.0	15.8	20	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 20.0	D	µg/l	20.0	14.6	20	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 40.0	D	µg/l	40.0	24.0	20	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 10.0	D	µg/l	10.0	6.86	20	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 10.0	D	µg/l	10.0	6.54	20	"	"	"	"	"	X
74-95-3	Dibromomethane	< 20.0	D	µg/l	20.0	13.3	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 20.0	D	µg/l	20.0	13.4	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 20.0	D	µg/l	20.0	14.2	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 20.0	D	µg/l	20.0	12.5	20	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 40.0	D	µg/l	40.0	8.94	20	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 20.0	D	µg/l	20.0	13.6	20	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 20.0	D	µg/l	20.0	15.6	20	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 20.0	D	µg/l	20.0	9.76	20	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 20.0	D	µg/l	20.0	14.3	20	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 20.0	D	µg/l	20.0	13.6	20	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 20.0	D	µg/l	20.0	14.2	20	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 20.0	D	µg/l	20.0	16.1	20	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 20.0	D	µg/l	20.0	12.1	20	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 20.0	D	µg/l	20.0	12.7	20	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 10.0	D	µg/l	10.0	5.04	20	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 10.0	D	µg/l	10.0	9.98	20	"	"	"	"	"	X
100-41-4	Ethylbenzene	**531**	D	µg/l	20.0	14.6	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 10.0	D	µg/l	10.0	9.78	20	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 200	D	µg/l	200	10.9	20	"	"	"	"	"	X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11/MW-3	CTD3002.21	Ground Water	22-Aug-13 13:48	23-Aug-13
SB75690-19				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	**64.4**	D	µg/l	20.0	12.4	20	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
99-87-6	4-Isopropyltoluene	< 20.0	D	µg/l	20.0	12.2	20	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 20.0	D	µg/l	20.0	13.0	20	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 200	D	µg/l	200	18.6	20	"	"	"	"	"	X
75-09-2	Methylene chloride	< 40.0	D	µg/l	40.0	13.8	20	"	"	"	"	"	X
91-20-3	Naphthalene	**135**	D	µg/l	20.0	11.6	20	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**166**	D	µg/l	20.0	15.2	20	"	"	"	"	"	X
100-42-5	Styrene	< 20.0	D	µg/l	20.0	12.3	20	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 20.0	D	µg/l	20.0	12.5	20	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 10.0	D	µg/l	10.0	6.98	20	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 20.0	D	µg/l	20.0	14.9	20	"	"	"	"	"	X
108-88-3	Toluene	< 20.0	D	µg/l	20.0	16.2	20	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 20.0	D	µg/l	20.0	7.52	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 20.0	D	µg/l	20.0	7.20	20	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 20.0	D	µg/l	20.0	15.7	20	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 20.0	D	µg/l	20.0	11.6	20	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 20.0	D	µg/l	20.0	12.8	20	"	"	"	"	"	X
79-01-6	Trichloroethene	< 20.0	D	µg/l	20.0	15.1	20	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 20.0	D	µg/l	20.0	12.6	20	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 20.0	D	µg/l	20.0	14.7	20	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	**994**	D	µg/l	20.0	15.1	20	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	**103**	D	µg/l	20.0	14.9	20	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 20.0	D	µg/l	20.0	16.1	20	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**222**	D	µg/l	40.0	32.8	20	"	"	"	"	"	X
95-47-6	o-Xylene	**58.6**	D	µg/l	20.0	17.6	20	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 40.0	D	µg/l	40.0	28.8	20	"	"	"	"	"	
60-29-7	Ethyl ether	< 20.0	D	µg/l	20.0	13.9	20	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 20.0	D	µg/l	20.0	14.4	20	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 20.0	D	µg/l	20.0	15.6	20	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 20.0	D	µg/l	20.0	14.5	20	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 200	D	µg/l	200	173	20	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 400	D	µg/l	400	280	20	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 100	D	µg/l	100	15.3	20	"	"	"	"	"	X
64-17-5	Ethanol	< 8000	D	µg/l	8000	714	20	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*104*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
SVOCs by SIM			GS1										
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11/MW-3	CTD3002.21	Ground Water	22-Aug-13 13:48	23-Aug-13
SB75690-19				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
SVOCs by SIM			GS1										
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 0.500	D	µg/l	0.500	0.072	10	SW846 8270D SIM	28-Aug-13	30-Aug-13	ML/	1320679	X
208-96-8	Acenaphthylene	**3.05**	D	µg/l	0.500	0.128	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**16.2**	D	µg/l	0.500	0.102	10	"	"	"	"	"	
120-12-7	Anthracene	**2.44**	D	µg/l	0.500	0.133	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 0.500	D	µg/l	0.500	0.365	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 0.500	D	µg/l	0.500	0.359	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 0.500	D	µg/l	0.500	0.307	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 0.500	D	µg/l	0.500	0.255	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 0.500	D	µg/l	0.500	0.256	10	"	"	"	"	"	X
218-01-9	Chrysene	< 0.500	D	µg/l	0.500	0.224	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 0.500	D	µg/l	0.500	0.295	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**4.11**	D	µg/l	0.500	0.169	10	"	"	"	"	"	X
86-73-7	Fluorene	**3.21**	D	µg/l	0.500	0.125	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.500	D	µg/l	0.500	0.287	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**25.5**	D	µg/l	0.500	0.076	10	"	"	"	"	"	
91-20-3	Naphthalene	**88.2**	D	µg/l	0.500	0.161	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**10.2**	D	µg/l	0.500	0.191	10	"	"	"	"	"	X
129-00-0	Pyrene	**3.02**	D	µg/l	0.500	0.174	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*67*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*76*			*30-130 %*			"	"	"	"	"	
205440-82-0	*Benzo (e) pyrene-d12*	*84*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons			R02										
Prepared by method SW846 3510C													
8006-61-9	Gasoline	**3.4**		mg/l	0.4	0.02	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320678	
68476-30-2	Fuel Oil #2	< 0.4		mg/l	0.4	0.04	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 0.4		mg/l	0.4	0.04	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 0.4		mg/l	0.4	0.09	1	"	"	"	"	"	
M09800000	Motor Oil	< 0.4		mg/l	0.4	0.04	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 0.4		mg/l	0.4	0.09	1	"	"	"	"	"	
	Unidentified	< 0.4		mg/l	0.4	0.09	1	"	"	"	"	"	
	Other Oil	< 0.4		mg/l	0.4	0.04	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**3.4**		mg/l	0.4	0.04	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**3.4**		mg/l	0.4	0.1	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*62*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1320621	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	28-Aug-13	29-Aug-13	TBC	1320709	X
7440-38-2	Arsenic	**0.0430**	R01, D	mg/l	0.0080	0.0036	2	"	"	29-Aug-13	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11/MW-3 SB75690-19	CTD3002.21	Ground Water	22-Aug-13 13:48	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**1.70**	R01, D	mg/l	0.0100	0.0014	2	SW846 6010C	28-Aug-13	29-Aug-13	TBC	1320709	X
7440-43-9	Cadmium	**0.0278**	R01, D	mg/l	0.0050	0.0016	2	"	"	"	"	"	X
7440-47-3	Chromium	**0.0521**		mg/l	0.0050	0.0009	1	"	"	29-Aug-13	"	"	X
7439-92-1	Lead	**0.0742**	R01, D	mg/l	0.0150	0.0040	2	"	"	29-Aug-13	"	"	X
7782-49-2	Selenium	< 0.0300	R01, D	mg/l	0.0300	0.0060	2	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	**0.00065**		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	28-Aug-13	29-Aug-13	JLM	1320711	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8/MW-2	CTD3002.21	Ground Water	22-Aug-13 13:33	23-Aug-13
SB75690-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.93	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	0.63	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.03	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	1.20	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.34	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.33	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.25	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.49	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.55	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8/MW-2	CTD3002.21	Ground Water	22-Aug-13 13:33	23-Aug-13
SB75690-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	29-Aug-13	30-Aug-13	JEG	1320848	X
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.93	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.69	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	14.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.00		µg/l	5.00	0.77	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	35.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
SVOCs by SIM			GS1										
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8/MW-2	CTD3002.21	Ground Water	22-Aug-13 13:33	23-Aug-13
SB75690-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
SVOCs by SIM			GS1										
Prepared by method SW846 3510C													
83-32-9	Acenaphthene	**0.345**	D	µg/l	0.250	0.036	5	SW846 8270D SIM	28-Aug-13	30-Aug-13	ML/	1320679	X
208-96-8	Acenaphthylene	**5.19**	D	µg/l	0.250	0.064	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**0.992**	D	µg/l	0.250	0.051	5	"	"	"	"	"	
120-12-7	Anthracene	**1.39**	D	µg/l	0.250	0.066	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**13.0**	D	µg/l	0.250	0.182	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**21.9**	D	µg/l	0.250	0.180	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**16.7**	D	µg/l	0.250	0.154	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**13.7**	D	µg/l	0.250	0.128	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**16.5**	D	µg/l	0.250	0.128	5	"	"	"	"	"	X
218-01-9	Chrysene	**11.1**	D	µg/l	0.250	0.112	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**3.54**	D	µg/l	0.250	0.148	5	"	"	"	"	"	X
206-44-0	Fluoranthene	**17.3**	D	µg/l	0.250	0.084	5	"	"	"	"	"	X
86-73-7	Fluorene	< 0.250	D	µg/l	0.250	0.062	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**18.5**	D	µg/l	0.250	0.144	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	**1.17**	D	µg/l	0.250	0.038	5	"	"	"	"	"	
91-20-3	Naphthalene	**0.993**	D	µg/l	0.250	0.080	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**1.66**	D	µg/l	0.250	0.096	5	"	"	"	"	"	X
129-00-0	Pyrene	**21.7**	D	µg/l	0.250	0.087	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*104*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*49*			*30-130 %*			"	"	"	"	"	
205440-82-0	*Benzo (e) pyrene-d12*	*39*			*30-130 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3510C													
8006-61-9	Gasoline	< 0.2		mg/l	0.2	0.01	1	CT ETPH	28-Aug-13	29-Aug-13	SEP	1320678	
68476-30-2	Fuel Oil #2	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
M09800000	Motor Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
	Unidentified	< 0.2		mg/l	0.2	0.06	1	"	"	"	"	"	
	Other Oil	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2	0.02	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 0.2		mg/l	0.2	0.07	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*51*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1320621	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0009	1	SW846 6010C	28-Aug-13	29-Aug-13	EDT	1320709	X
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0018	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8/MW-2	CTD3002.21	Ground Water	22-Aug-13 13:33	23-Aug-13
SB75690-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-39-3	Barium	**0.375**		mg/l	0.0050	0.0007	1	SW846 6010C	28-Aug-13	29-Aug-13	EDT	1320709	X
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0008	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0009	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0020	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0150		mg/l	0.0150	0.0030	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	28-Aug-13	29-Aug-13	JLM	1320711	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-1 SB75690-21	CTD3002.21	Soil	22-Aug-13 13:29	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.76 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.8		µg/kg dry	4.8	3.2	1	SW846 8260C	30-Aug-13	30-Aug-13	JEG	1320939	X
67-64-1	Acetone	< 48.1		µg/kg dry	48.1	36.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.8		µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.8		µg/kg dry	4.8	3.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.8		µg/kg dry	4.8	1.8	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.8		µg/kg dry	4.8	3.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.6		µg/kg dry	9.6	8.7	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 48.1		µg/kg dry	48.1	41.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.8		µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.6		µg/kg dry	9.6	6.9	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.8		µg/kg dry	4.8	4.8	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.6		µg/kg dry	9.6	6.8	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.6		µg/kg dry	9.6	2.4	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.6		µg/kg dry	9.6	9.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.8		µg/kg dry	4.8	2.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.8		µg/kg dry	4.8	3.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.8		µg/kg dry	4.8	4.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.8		µg/kg dry	4.8	3.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.8		µg/kg dry	4.8	4.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.8		µg/kg dry	4.8	3.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.6		µg/kg dry	9.6	8.1	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.8		µg/kg dry	4.8	4.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.8		µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.8		µg/kg dry	4.8	1.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.8		µg/kg dry	4.8	3.0	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.8		µg/kg dry	4.8	2.6	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.8		µg/kg dry	4.8	1.4	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-1	CTD3002.21	Soil	22-Aug-13 13:29	23-Aug-13
SB75690-21				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.76 g							
87-68-3	Hexachlorobutadiene	< 4.8		µg/kg dry	4.8	4.2	1	SW846 8260C	30-Aug-13	30-Aug-13	JEG	1320939	X
591-78-6	2-Hexanone (MBK)	< 48.1		µg/kg dry	48.1	12.3	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.8		µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 48.1		µg/kg dry	48.1	15.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.6		µg/kg dry	9.6	2.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.8		µg/kg dry	4.8	3.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8		µg/kg dry	4.8	3.7	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.8		µg/kg dry	4.8	2.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.8		µg/kg dry	4.8	4.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.8		µg/kg dry	4.8	3.4	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.8		µg/kg dry	4.8	3.9	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.8		µg/kg dry	4.8	4.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.8		µg/kg dry	4.8	3.7	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.8		µg/kg dry	4.8	2.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.8		µg/kg dry	4.8	4.8	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.8		µg/kg dry	4.8	4.5	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.6		µg/kg dry	9.6	9.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.8		µg/kg dry	4.8	3.3	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.6		µg/kg dry	9.6	8.9	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.8		µg/kg dry	4.8	4.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.8		µg/kg dry	4.8	3.8	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.8		µg/kg dry	4.8	1.7	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 48.1		µg/kg dry	48.1	27.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 96.3		µg/kg dry	96.3	78.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 24.1		µg/kg dry	24.1	12.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1930		µg/kg dry	1930	403	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*106*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*121*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-1	CTD3002.21	Soil	22-Aug-13 13:29	23-Aug-13
SB75690-21				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 198		µg/kg dry	198	50.3	1	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
208-96-8	Acenaphthylene	< 198		µg/kg dry	198	54.9	1	"	"	"	"	"	X
62-53-3	Aniline	< 392		µg/kg dry	392	111	1	"	"	"	"	"	X
120-12-7	Anthracene	< 198		µg/kg dry	198	50.5	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 392		µg/kg dry	392	48.6	1	"	"	"	"	"	
92-87-5	Benzidine	< 392		µg/kg dry	392	152	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 198		µg/kg dry	198	53.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 198		µg/kg dry	198	53.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 198		µg/kg dry	198	43.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 198		µg/kg dry	198	55.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 198		µg/kg dry	198	70.2	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 392		µg/kg dry	392	185	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 392		µg/kg dry	392	44.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 392		µg/kg dry	392	43.1	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 198		µg/kg dry	198	47.8	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 198		µg/kg dry	198	50.4	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 198		µg/kg dry	198	52.7	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 392		µg/kg dry	392	49.3	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 392		µg/kg dry	392	50.0	1	"	"	"	"	"	X
86-74-8	Carbazole	< 198		µg/kg dry	198	162	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 392		µg/kg dry	392	53.1	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 198		µg/kg dry	198	108	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 392		µg/kg dry	392	51.9	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 198		µg/kg dry	198	56.7	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 392		µg/kg dry	392	44.8	1	"	"	"	"	"	X
218-01-9	Chrysene	< 198		µg/kg dry	198	55.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 198		µg/kg dry	198	51.2	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 198		µg/kg dry	198	51.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 392		µg/kg dry	392	55.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 392		µg/kg dry	392	53.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 392		µg/kg dry	392	56.8	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 392		µg/kg dry	392	115	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 198		µg/kg dry	198	53.0	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 392		µg/kg dry	392	52.3	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 392		µg/kg dry	392	47.9	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 392		µg/kg dry	392	48.0	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 392		µg/kg dry	392	48.5	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 392		µg/kg dry	392	61.1	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 392		µg/kg dry	392	175	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 198		µg/kg dry	198	65.3	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 198		µg/kg dry	198	66.4	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-1	CTD3002.21	Soil	22-Aug-13 13:29	23-Aug-13
SB75690-21				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
Prepared by method SW846 3545A													
117-84-0	Di-n-octyl phthalate	< 392		µg/kg dry	392	50.3	1	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
206-44-0	Fluoranthene	< 198		µg/kg dry	198	55.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 198		µg/kg dry	198	55.1	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 198		µg/kg dry	198	56.1	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 198		µg/kg dry	198	49.7	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 198		µg/kg dry	198	48.2	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 198		µg/kg dry	198	58.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 198		µg/kg dry	198	54.9	1	"	"	"	"	"	X
78-59-1	Isophorone	< 198		µg/kg dry	198	44.4	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 198		µg/kg dry	198	56.5	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 392		µg/kg dry	392	48.3	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 392		µg/kg dry	392	54.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 198		µg/kg dry	198	55.3	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 392		µg/kg dry	392	58.2	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 392		µg/kg dry	392	70.1	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 198		µg/kg dry	198	58.1	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 198		µg/kg dry	198	48.5	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 198		µg/kg dry	198	76.1	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1570		µg/kg dry	1570	88.0	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 198		µg/kg dry	198	54.1	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 198		µg/kg dry	198	48.9	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 392		µg/kg dry	392	50.5	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 392		µg/kg dry	392	58.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 198		µg/kg dry	198	52.9	1	"	"	"	"	"	X
108-95-2	Phenol	< 392		µg/kg dry	392	51.6	1	"	"	"	"	"	X
129-00-0	Pyrene	< 198		µg/kg dry	198	47.9	1	"	"	"	"	"	X
110-86-1	Pyridine	< 392		µg/kg dry	392	55.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 392		µg/kg dry	392	53.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 198		µg/kg dry	198	58.4	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 392		µg/kg dry	392	45.7	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 198		µg/kg dry	198	53.9	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 392		µg/kg dry	392	192	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 392		µg/kg dry	392	55.1	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*88*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*99*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*102*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*80*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*96*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*106*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-1	CTD3002.21	Soil	22-Aug-13 13:29	23-Aug-13
SB75690-21				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 23.8		µg/kg dry	23.8	17.8	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 23.8		µg/kg dry	23.8	21.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.8		µg/kg dry	23.8	15.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.8		µg/kg dry	23.8	14.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.8		µg/kg dry	23.8	12.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.8		µg/kg dry	23.8	19.9	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.8		µg/kg dry	23.8	14.8	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.8		µg/kg dry	23.8	22.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.8		µg/kg dry	23.8	9.83	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*80*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 31.5		mg/kg dry	31.5	1.6	1	CT ETPH	29-Aug-13	29-Aug-13	SEP	1320818	
68476-30-2	Fuel Oil #2	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 31.5		mg/kg dry	31.5	7.9	1	"	"	"	"	"	
M09800000	Motor Oil	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 31.5		mg/kg dry	31.5	7.9	1	"	"	"	"	"	
	Unidentified	< 31.5		mg/kg dry	31.5	7.9	1	"	"	"	"	"	
	Other Oil	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	< 31.5		mg/kg dry	31.5	3.2	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	< 31.5		mg/kg dry	31.5	2.9	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*76*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.66		mg/kg dry	1.66	0.477	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	< 1.66		mg/kg dry	1.66	0.723	1	"	"	"	"	"	X
7440-39-3	Barium	**38.3**		mg/kg dry	1.10	0.356	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.552		mg/kg dry	0.552	0.162	1	"	"	"	"	"	X
7440-47-3	Chromium	**4.48**		mg/kg dry	1.10	0.239	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.0350		mg/kg dry	0.0350	0.0018	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**4.85**		mg/kg dry	1.66	0.611	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.66		mg/kg dry	1.66	0.475	1	"	"	"	"	"	X
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg													
Prepared by method SW846 1311													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-1 SB75690-21	CTD3002.21	Soil	22-Aug-13 13:29	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg													
Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	28-Aug-13	29-Aug-13	CMB	1320756	X
	Final pH of leachate	**4.96**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals													
Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**4.96**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1311/6010C	29-Aug-13	30-Aug-13	TBC	1320825	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	X
7440-39-3	Barium	**0.657**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1311/7470A	"	30-Aug-13	JLM	1320826	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1311/6010C	"	30-Aug-13	TBC	1320825	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**83.8**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320630	
	Specific Conductance (EC)	**168**		uS/cm	10.0	10.0	1	SM2510B	27-Aug-13	27-Aug-13	BD	1320473	
Toxicity Characteristics													
	Flashpoint	**>200**		°F			1	SW846 1010A	28-Aug-13	28-Aug-13	JPN	1320758	X
	pH	**6.32**	pH	pH Units			1	SW846 9045D	27-Aug-13 09:50	27-Aug-13 16:51	BD	1320472	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-2 SB75690-22	CTD3002.21	Soil	22-Aug-13 15:03	23-Aug-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			DJB	1320666	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.63 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.8		µg/kg dry	4.8	3.2	1	SW846 8260C	30-Aug-13	30-Aug-13	JEG	1320939	X
67-64-1	Acetone	< 47.5		µg/kg dry	47.5	35.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
71-43-2	Benzene	< 4.8		µg/kg dry	4.8	2.5	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 4.8		µg/kg dry	4.8	3.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.8		µg/kg dry	4.8	1.8	1	"	"	"	"	"	X
75-25-2	Bromoform	< 4.8		µg/kg dry	4.8	3.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.5		µg/kg dry	9.5	8.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 47.5		µg/kg dry	47.5	40.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 4.8		µg/kg dry	4.8	3.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.5		µg/kg dry	9.5	6.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 9.5		µg/kg dry	9.5	6.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.8		µg/kg dry	4.8	2.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 9.5		µg/kg dry	9.5	2.4	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.5		µg/kg dry	9.5	9.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.8		µg/kg dry	4.8	2.3	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.8		µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4.8		µg/kg dry	4.8	3.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4.8		µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 9.5		µg/kg dry	9.5	8.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.8		µg/kg dry	4.8	3.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 4.8		µg/kg dry	4.8	1.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 4.8		µg/kg dry	4.8	2.6	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.8		µg/kg dry	4.8	1.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-2	CTD3002.21	Soil	22-Aug-13 15:03	23-Aug-13
SB75690-22				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 7.63 g							
87-68-3	Hexachlorobutadiene	< 4.8		µg/kg dry	4.8	4.1	1	SW846 8260C	30-Aug-13	30-Aug-13	JEG	1320939	X
591-78-6	2-Hexanone (MBK)	< 47.5		µg/kg dry	47.5	12.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 4.8		µg/kg dry	4.8	2.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.8		µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 47.5		µg/kg dry	47.5	15.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 9.5		µg/kg dry	9.5	2.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 4.8		µg/kg dry	4.8	3.0	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 4.8		µg/kg dry	4.8	2.9	1	"	"	"	"	"	X
100-42-5	Styrene	< 4.8		µg/kg dry	4.8	3.5	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 4.8		µg/kg dry	4.8	4.6	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.8		µg/kg dry	4.8	2.7	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.8		µg/kg dry	4.8	4.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.8		µg/kg dry	4.8	4.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.8		µg/kg dry	4.8	3.4	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.8		µg/kg dry	4.8	3.8	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.8		µg/kg dry	4.8	4.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.8		µg/kg dry	4.8	3.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 4.8		µg/kg dry	4.8	2.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.8		µg/kg dry	4.8	2.1	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 4.8		µg/kg dry	4.8	1.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 4.8		µg/kg dry	4.8	4.7	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.8		µg/kg dry	4.8	4.5	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.5		µg/kg dry	9.5	9.2	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 4.8		µg/kg dry	4.8	3.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 9.5		µg/kg dry	9.5	8.8	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.8		µg/kg dry	4.8	4.4	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 4.8		µg/kg dry	4.8	3.7	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 4.8		µg/kg dry	4.8	1.7	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 4.8		µg/kg dry	4.8	1.5	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 47.5		µg/kg dry	47.5	26.9	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 95.1		µg/kg dry	95.1	77.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 23.8		µg/kg dry	23.8	12.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1900		µg/kg dry	1900	398	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*92*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*128*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*111*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-2	CTD3002.21	Soil	22-Aug-13 15:03	23-Aug-13
SB75690-22				

Semivolatile Organic Compounds by GCMS

Semivolatile Organic Compounds — GS1

Prepared by method SW846 3545A

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
83-32-9	Acenaphthene	< 383	D	µg/kg dry	383	97.3	2	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
208-96-8	Acenaphthylene	< 383	D	µg/kg dry	383	106	2	"	"	"	"	"	X
62-53-3	Aniline	< 757	D	µg/kg dry	757	215	2	"	"	"	"	"	X
120-12-7	Anthracene	< 383	D	µg/kg dry	383	97.6	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 757	D	µg/kg dry	757	94.0	2	"	"	"	"	"	
92-87-5	Benzidine	< 757	D	µg/kg dry	757	294	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**1,970**	D	µg/kg dry	383	102	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**2,060**	D	µg/kg dry	383	104	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**1,870**	D	µg/kg dry	383	83.2	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**1,140**	D	µg/kg dry	383	107	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,590**	D	µg/kg dry	383	136	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 757	D	µg/kg dry	757	358	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 757	D	µg/kg dry	757	85.1	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 757	D	µg/kg dry	757	83.3	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 383	D	µg/kg dry	383	92.4	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 383	D	µg/kg dry	383	97.4	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 383	D	µg/kg dry	383	102	2	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 757	D	µg/kg dry	757	95.3	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 757	D	µg/kg dry	757	96.7	2	"	"	"	"	"	X
86-74-8	Carbazole	< 383	D	µg/kg dry	383	313	2	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 757	D	µg/kg dry	757	103	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 383	D	µg/kg dry	383	209	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 757	D	µg/kg dry	757	100	2	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 383	D	µg/kg dry	383	110	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 757	D	µg/kg dry	757	86.6	2	"	"	"	"	"	X
218-01-9	Chrysene	**1,960**	D	µg/kg dry	383	108	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 383	D	µg/kg dry	383	98.9	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 383	D	µg/kg dry	383	99.3	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 757	D	µg/kg dry	757	107	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 757	D	µg/kg dry	757	104	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 757	D	µg/kg dry	757	110	2	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 757	D	µg/kg dry	757	223	2	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 383	D	µg/kg dry	383	102	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 757	D	µg/kg dry	757	101	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 757	D	µg/kg dry	757	92.6	2	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 757	D	µg/kg dry	757	92.9	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 757	D	µg/kg dry	757	93.7	2	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 757	D	µg/kg dry	757	118	2	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 757	D	µg/kg dry	757	338	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 383	D	µg/kg dry	383	126	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 383	D	µg/kg dry	383	128	2	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-2	CTD3002.21	Soil	22-Aug-13 15:03	23-Aug-13
SB75690-22				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			GS1										
Prepared by method SW846 3545A													
117-84-0	Di-n-octyl phthalate	< 757	D	µg/kg dry	757	97.2	2	SW846 8270D	29-Aug-13	30-Aug-13	MSL	1320819	X
206-44-0	Fluoranthene	**3,890**	D	µg/kg dry	383	107	2	"	"	"	"	"	X
86-73-7	Fluorene	< 383	D	µg/kg dry	383	106	2	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 383	D	µg/kg dry	383	108	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 383	D	µg/kg dry	383	96.1	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 383	D	µg/kg dry	383	93.3	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 383	D	µg/kg dry	383	113	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**1,300**	D	µg/kg dry	383	106	2	"	"	"	"	"	X
78-59-1	Isophorone	< 383	D	µg/kg dry	383	85.9	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 383	D	µg/kg dry	383	109	2	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 757	D	µg/kg dry	757	93.4	2	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 757	D	µg/kg dry	757	105	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 383	D	µg/kg dry	383	107	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 757	D	µg/kg dry	757	113	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 757	D	µg/kg dry	757	136	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 383	D	µg/kg dry	383	112	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 383	D	µg/kg dry	383	93.8	2	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 383	D	µg/kg dry	383	147	2	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 3030	D	µg/kg dry	3030	170	2	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 383	D	µg/kg dry	383	105	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 383	D	µg/kg dry	383	94.5	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 757	D	µg/kg dry	757	97.7	2	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 757	D	µg/kg dry	757	114	2	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,230**	D	µg/kg dry	383	102	2	"	"	"	"	"	X
108-95-2	Phenol	< 757	D	µg/kg dry	757	99.8	2	"	"	"	"	"	X
129-00-0	Pyrene	**3,400**	D	µg/kg dry	383	92.5	2	"	"	"	"	"	X
110-86-1	Pyridine	< 757	D	µg/kg dry	757	108	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 757	D	µg/kg dry	757	103	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 383	D	µg/kg dry	383	113	2	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 757	D	µg/kg dry	757	88.4	2	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 383	D	µg/kg dry	383	104	2	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 757	D	µg/kg dry	757	372	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 757	D	µg/kg dry	757	106	2	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*65*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*72*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*71*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*59*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*70*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*78*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-2	CTD3002.21	Soil	22-Aug-13 15:03	23-Aug-13
SB75690-22				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3545A													
12674-11-2	Aroclor-1016	< 22.9		µg/kg dry	22.9	17.1	1	SW846 8082A	28-Aug-13	29-Aug-13	BLM	1320688	X
11104-28-2	Aroclor-1221	< 22.9		µg/kg dry	22.9	20.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.9		µg/kg dry	22.9	14.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.9		µg/kg dry	22.9	13.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.9		µg/kg dry	22.9	11.9	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.9		µg/kg dry	22.9	19.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 22.9		µg/kg dry	22.9	14.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.9		µg/kg dry	22.9	21.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.9		µg/kg dry	22.9	9.43	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*55*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*60*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Extractable Total Petroleum Hydrocarbons													
Prepared by method SW846 3550C													
8006-61-9	Gasoline	< 30.9		mg/kg dry	30.9	1.5	1	CT ETPH	29-Aug-13	30-Aug-13	SEP	1320818	
68476-30-2	Fuel Oil #2	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
68476-31-3	Fuel Oil #4	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 30.9		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
M09800000	Motor Oil	< 30.9		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
J00100000	Aviation Fuel	< 30.9		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
	Unidentified	**165**		mg/kg dry	30.9	7.7	1	"	"	"	"	"	
	Other Oil	**Calculated as**		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
	Total Petroleum Hydrocarbons	**165**		mg/kg dry	30.9	3.1	1	"	"	"	"	"	
	C9-C36 Aliphatic Hydrocarbons	**165**		mg/kg dry	30.9	2.9	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*87*			*50-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 1.64		mg/kg dry	1.64	0.471	1	SW846 6010C	28-Aug-13	30-Aug-13	EDT	1320707	X
7440-38-2	Arsenic	**2.41**		mg/kg dry	1.64	0.713	1	"	"	"	"	"	X
7440-39-3	Barium	**77.2**		mg/kg dry	1.09	0.351	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.545		mg/kg dry	0.545	0.160	1	"	"	"	"	"	X
7440-47-3	Chromium	**11.7**		mg/kg dry	1.09	0.236	1	"	"	"	"	"	X
7439-97-6	Mercury	**0.106**		mg/kg dry	0.0336	0.0017	1	SW846 7471B	"	29-Aug-13	JLM	1320708	X
7439-92-1	Lead	**52.7**		mg/kg dry	1.64	0.603	1	SW846 6010C	"	30-Aug-13	EDT	1320707	X
7782-49-2	Selenium	< 1.64		mg/kg dry	1.64	0.469	1	"	"	"	"	"	X
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg													
Prepared by method SW846 1311													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WCS-2 SB75690-22	CTD3002.21	Soil	22-Aug-13 15:03	23-Aug-13

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Hg													
Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	28-Aug-13	29-Aug-13	CMB	1320756	X
	Final pH of leachate	**4.90**		N/A			1	"	"	"	"	"	
TCLP Extraction for Metals													
Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	"	"	"	"	"	X
	Final pH of leachate	**4.90**		N/A			1	"	"	"	"	"	
7440-22-4	Silver	< 0.0100		mg/l	0.0100	0.0024	1	SW846 1311/6010C	29-Aug-13	30-Aug-13	TBC	1320825	X
7440-38-2	Arsenic	< 0.0080		mg/l	0.0080	0.0027	1	"	"	"	"	"	X
7440-39-3	Barium	**0.612**		mg/l	0.0100	0.0012	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0050		mg/l	0.0050	0.0004	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0100		mg/l	0.0100	0.0016	1	"	"	"	"	"	X
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00008	1	SW846 1311/7470A	"	30-Aug-13	JLM	1320826	X
7439-92-1	Lead	< 0.0150		mg/l	0.0150	0.0042	1	SW846 1311/6010C	"	30-Aug-13	TBC	1320825	X
7782-49-2	Selenium	< 0.0300		mg/l	0.0300	0.0166	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.9**		%			1	SM2540 G Mod.	27-Aug-13	27-Aug-13	DT	1320630	
	Specific Conductance (EC)	**169**		uS/cm	10.0	10.0	1	SM2510B	27-Aug-13	27-Aug-13	BD	1320473	
Toxicity Characteristics													
	Flashpoint	**>200**		°F			1	SW846 1010A	28-Aug-13	28-Aug-13	JPN	1320758	X
	pH	**7.02**	pH	pH Units			1	SW846 9045D	27-Aug-13 09:50	27-Aug-13 16:52	BD	1320472	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320704 - SW846 5035A Soil (low level)										
Blank (1320704-BLK1)					Prepared & Analyzed: 28-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0		µg/kg wet	5.0						
Acetone	< 50.0		µg/kg wet	50.0						
Acrylonitrile	< 5.0		µg/kg wet	5.0						
Benzene	< 5.0		µg/kg wet	5.0						
Bromobenzene	< 5.0		µg/kg wet	5.0						
Bromochloromethane	< 5.0		µg/kg wet	5.0						
Bromodichloromethane	< 5.0		µg/kg wet	5.0						
Bromoform	< 5.0		µg/kg wet	5.0						
Bromomethane	< 10.0		µg/kg wet	10.0						
2-Butanone (MEK)	< 50.0		µg/kg wet	50.0						
n-Butylbenzene	< 5.0		µg/kg wet	5.0						
sec-Butylbenzene	< 5.0		µg/kg wet	5.0						
tert-Butylbenzene	< 5.0		µg/kg wet	5.0						
Carbon disulfide	< 10.0		µg/kg wet	10.0						
Carbon tetrachloride	< 5.0		µg/kg wet	5.0						
Chlorobenzene	< 5.0		µg/kg wet	5.0						
Chloroethane	< 10.0		µg/kg wet	10.0						
Chloroform	< 5.0		µg/kg wet	5.0						
Chloromethane	< 10.0		µg/kg wet	10.0						
2-Chlorotoluene	< 5.0		µg/kg wet	5.0						
4-Chlorotoluene	< 5.0		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	< 10.0		µg/kg wet	10.0						
Dibromochloromethane	< 5.0		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	< 5.0		µg/kg wet	5.0						
Dibromomethane	< 5.0		µg/kg wet	5.0						
1,2-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,4-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	< 10.0		µg/kg wet	10.0						
1,1-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,2-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,1-Dichloroethene	< 5.0		µg/kg wet	5.0						
cis-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
trans-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
1,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,3-Dichloropropane	< 5.0		µg/kg wet	5.0						
2,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,1-Dichloropropene	< 5.0		µg/kg wet	5.0						
cis-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
trans-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
Ethylbenzene	< 5.0		µg/kg wet	5.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 50.0		µg/kg wet	50.0						
Isopropylbenzene	< 5.0		µg/kg wet	5.0						
4-Isopropyltoluene	< 5.0		µg/kg wet	5.0						
Methyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	< 50.0		µg/kg wet	50.0						
Methylene chloride	< 10.0		µg/kg wet	10.0						
Naphthalene	< 5.0		µg/kg wet	5.0						
n-Propylbenzene	< 5.0		µg/kg wet	5.0						
Styrene	< 5.0		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320704 - SW846 5035A Soil (low level)										
Blank (1320704-BLK1)					Prepared & Analyzed: 28-Aug-13					
1,1,2,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						
Tetrachloroethene	< 5.0		µg/kg wet	5.0						
Toluene	< 5.0		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,1,1-Trichloroethane	< 5.0		µg/kg wet	5.0						
1,1,2-Trichloroethane	< 5.0		µg/kg wet	5.0						
Trichloroethene	< 5.0		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	< 5.0		µg/kg wet	5.0						
1,2,3-Trichloropropane	< 5.0		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
Vinyl chloride	< 5.0		µg/kg wet	5.0						
m,p-Xylene	< 10.0		µg/kg wet	10.0						
o-Xylene	< 5.0		µg/kg wet	5.0						
Tetrahydrofuran	< 10.0		µg/kg wet	10.0						
Ethyl ether	< 5.0		µg/kg wet	5.0						
Tert-amyl methyl ether	< 5.0		µg/kg wet	5.0						
Ethyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
Di-isopropyl ether	< 5.0		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	< 50.0		µg/kg wet	50.0						
1,4-Dioxane	< 100		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0		µg/kg wet	25.0						
Ethanol	< 2000		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	*48.2*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*51.0*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.8*		µg/kg wet		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*51.4*		µg/kg wet		*50.0*		*103*	*70-130*		
LCS (1320704-BS1)					Prepared & Analyzed: 28-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.6**		µg/kg wet		20.0		98	70-130		
Acetone	**21.5**		µg/kg wet		20.0		107	70-130		
Acrylonitrile	**22.1**		µg/kg wet		20.0		110	70-130		
Benzene	**20.9**		µg/kg wet		20.0		104	70-130		
Bromobenzene	**20.0**		µg/kg wet		20.0		100	70-130		
Bromochloromethane	**19.8**		µg/kg wet		20.0		99	70-130		
Bromodichloromethane	**19.0**		µg/kg wet		20.0		95	70-130		
Bromoform	**19.7**		µg/kg wet		20.0		98	70-130		
Bromomethane	**18.9**		µg/kg wet		20.0		94	70-130		
2-Butanone (MEK)	**22.0**		µg/kg wet		20.0		110	70-130		
n-Butylbenzene	**20.1**		µg/kg wet		20.0		100	70-130		
sec-Butylbenzene	**21.3**		µg/kg wet		20.0		106	70-130		
tert-Butylbenzene	**21.7**		µg/kg wet		20.0		108	70-130		
Carbon disulfide	**18.1**		µg/kg wet		20.0		91	70-130		
Carbon tetrachloride	**19.6**		µg/kg wet		20.0		98	70-130		
Chlorobenzene	**20.2**		µg/kg wet		20.0		101	70-130		
Chloroethane	**19.9**		µg/kg wet		20.0		100	70-130		
Chloroform	**18.3**		µg/kg wet		20.0		92	70-130		
Chloromethane	**19.8**		µg/kg wet		20.0		99	70-130		
2-Chlorotoluene	**20.0**		µg/kg wet		20.0		100	70-130		
4-Chlorotoluene	**21.2**		µg/kg wet		20.0		106	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320704 - SW846 5035A Soil (low level)										
LCS (1320704-BS1)					Prepared & Analyzed: 28-Aug-13					
1,2-Dibromo-3-chloropropane	**17.8**		µg/kg wet		20.0		89	70-130		
Dibromochloromethane	**20.1**		µg/kg wet		20.0		101	70-130		
1,2-Dibromoethane (EDB)	**20.6**		µg/kg wet		20.0		103	70-130		
Dibromomethane	**20.2**		µg/kg wet		20.0		101	70-130		
1,2-Dichlorobenzene	**19.4**		µg/kg wet		20.0		97	70-130		
1,3-Dichlorobenzene	**20.4**		µg/kg wet		20.0		102	70-130		
1,4-Dichlorobenzene	**19.1**		µg/kg wet		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	**18.4**		µg/kg wet		20.0		92	70-130		
1,1-Dichloroethane	**19.7**		µg/kg wet		20.0		98	70-130		
1,2-Dichloroethane	**18.2**		µg/kg wet		20.0		91	70-130		
1,1-Dichloroethene	**20.6**		µg/kg wet		20.0		103	70-130		
cis-1,2-Dichloroethene	**21.4**		µg/kg wet		20.0		107	70-130		
trans-1,2-Dichloroethene	**20.8**		µg/kg wet		20.0		104	70-130		
1,2-Dichloropropane	**21.1**		µg/kg wet		20.0		106	70-130		
1,3-Dichloropropane	**20.6**		µg/kg wet		20.0		103	70-130		
2,2-Dichloropropane	**20.6**		µg/kg wet		20.0		103	70-130		
1,1-Dichloropropene	**20.5**		µg/kg wet		20.0		102	70-130		
cis-1,3-Dichloropropene	**19.8**		µg/kg wet		20.0		99	70-130		
trans-1,3-Dichloropropene	**19.1**		µg/kg wet		20.0		96	70-130		
Ethylbenzene	**21.2**		µg/kg wet		20.0		106	70-130		
Hexachlorobutadiene	**18.8**		µg/kg wet		20.0		94	70-130		
2-Hexanone (MBK)	**20.5**		µg/kg wet		20.0		103	70-130		
Isopropylbenzene	**20.7**		µg/kg wet		20.0		104	70-130		
4-Isopropyltoluene	**20.8**		µg/kg wet		20.0		104	70-130		
Methyl tert-butyl ether	**25.0**		µg/kg wet		20.0		125	70-130		
4-Methyl-2-pentanone (MIBK)	**19.6**		µg/kg wet		20.0		98	70-130		
Methylene chloride	**19.5**		µg/kg wet		20.0		98	70-130		
Naphthalene	**18.1**		µg/kg wet		20.0		90	70-130		
n-Propylbenzene	**21.7**		µg/kg wet		20.0		108	70-130		
Styrene	**21.6**		µg/kg wet		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	**19.4**		µg/kg wet		20.0		97	70-130		
1,1,2,2-Tetrachloroethane	**20.9**		µg/kg wet		20.0		105	70-130		
Tetrachloroethene	**20.5**		µg/kg wet		20.0		103	70-130		
Toluene	**19.9**		µg/kg wet		20.0		100	70-130		
1,2,3-Trichlorobenzene	**19.3**		µg/kg wet		20.0		97	70-130		
1,2,4-Trichlorobenzene	**18.9**		µg/kg wet		20.0		95	70-130		
1,3,5-Trichlorobenzene	**20.3**		µg/kg wet		20.0		101	70-130		
1,1,1-Trichloroethane	**20.2**		µg/kg wet		20.0		101	70-130		
1,1,2-Trichloroethane	**20.3**		µg/kg wet		20.0		101	70-130		
Trichloroethene	**19.6**		µg/kg wet		20.0		98	70-130		
Trichlorofluoromethane (Freon 11)	**18.8**		µg/kg wet		20.0		94	70-130		
1,2,3-Trichloropropane	**19.7**		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	**20.9**		µg/kg wet		20.0		105	70-130		
1,3,5-Trimethylbenzene	**21.6**		µg/kg wet		20.0		108	70-130		
Vinyl chloride	**20.9**		µg/kg wet		20.0		105	70-130		
m,p-Xylene	**43.2**		µg/kg wet		40.0		108	70-130		
o-Xylene	**21.7**		µg/kg wet		20.0		108	70-130		
Tetrahydrofuran	**20.3**		µg/kg wet		20.0		101	70-130		
Ethyl ether	**21.2**		µg/kg wet		20.0		106	70-130		
Tert-amyl methyl ether	**18.8**		µg/kg wet		20.0		94	70-130		
Ethyl tert-butyl ether	**25.1**		µg/kg wet		20.0		126	70-130		
Di-isopropyl ether	**22.7**		µg/kg wet		20.0		113	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320704 - SW846 5035A Soil (low level)										
LCS (1320704-BS1)						Prepared & Analyzed: 28-Aug-13				
Tert-Butanol / butyl alcohol	**227**		µg/kg wet		200		113	70-130		
1,4-Dioxane	**221**		µg/kg wet		200		110	70-130		
trans-1,4-Dichloro-2-butene	**19.6**		µg/kg wet		20.0		98	70-130		
Ethanol	**374**		µg/kg wet		400		94	70-130		
Surrogate: 4-Bromofluorobenzene	*51.9*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.5*		µg/kg wet		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*47.4*		µg/kg wet		*50.0*		*95*	*70-130*		
LCS Dup (1320704-BSD1)						Prepared & Analyzed: 28-Aug-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.1**		µg/kg wet		20.0		96	70-130	2	30
Acetone	**20.1**		µg/kg wet		20.0		101	70-130	6	30
Acrylonitrile	**20.0**		µg/kg wet		20.0		100	70-130	10	30
Benzene	**20.5**		µg/kg wet		20.0		103	70-130	2	30
Bromobenzene	**20.0**		µg/kg wet		20.0		100	70-130	0.3	30
Bromochloromethane	**19.8**		µg/kg wet		20.0		99	70-130	0.2	30
Bromodichloromethane	**18.7**		µg/kg wet		20.0		93	70-130	2	30
Bromoform	**18.7**		µg/kg wet		20.0		93	70-130	5	30
Bromomethane	**18.0**		µg/kg wet		20.0		90	70-130	4	30
2-Butanone (MEK)	**15.2**	QR2	µg/kg wet		20.0		76	70-130	36	30
n-Butylbenzene	**19.9**		µg/kg wet		20.0		99	70-130	1	30
sec-Butylbenzene	**21.4**		µg/kg wet		20.0		107	70-130	0.4	30
tert-Butylbenzene	**21.7**		µg/kg wet		20.0		108	70-130	0	30
Carbon disulfide	**18.1**		µg/kg wet		20.0		90	70-130	0.2	30
Carbon tetrachloride	**18.6**		µg/kg wet		20.0		93	70-130	5	30
Chlorobenzene	**20.2**		µg/kg wet		20.0		101	70-130	0.1	30
Chloroethane	**19.7**		µg/kg wet		20.0		98	70-130	1	30
Chloroform	**18.2**		µg/kg wet		20.0		91	70-130	0.5	30
Chloromethane	**19.1**		µg/kg wet		20.0		95	70-130	4	30
2-Chlorotoluene	**20.5**		µg/kg wet		20.0		102	70-130	2	30
4-Chlorotoluene	**21.3**		µg/kg wet		20.0		107	70-130	0.7	30
1,2-Dibromo-3-chloropropane	**16.6**		µg/kg wet		20.0		83	70-130	7	30
Dibromochloromethane	**19.0**		µg/kg wet		20.0		95	70-130	6	30
1,2-Dibromoethane (EDB)	**19.9**		µg/kg wet		20.0		100	70-130	4	30
Dibromomethane	**19.2**		µg/kg wet		20.0		96	70-130	5	30
1,2-Dichlorobenzene	**19.1**		µg/kg wet		20.0		96	70-130	2	30
1,3-Dichlorobenzene	**19.8**		µg/kg wet		20.0		99	70-130	3	30
1,4-Dichlorobenzene	**18.6**		µg/kg wet		20.0		93	70-130	3	30
Dichlorodifluoromethane (Freon12)	**18.3**		µg/kg wet		20.0		92	70-130	0.4	30
1,1-Dichloroethane	**19.7**		µg/kg wet		20.0		99	70-130	0.3	30
1,2-Dichloroethane	**18.0**		µg/kg wet		20.0		90	70-130	1	30
1,1-Dichloroethene	**20.6**		µg/kg wet		20.0		103	70-130	0.1	30
cis-1,2-Dichloroethene	**20.8**		µg/kg wet		20.0		104	70-130	3	30
trans-1,2-Dichloroethene	**20.4**		µg/kg wet		20.0		102	70-130	2	30
1,2-Dichloropropane	**20.8**		µg/kg wet		20.0		104	70-130	1	30
1,3-Dichloropropane	**19.6**		µg/kg wet		20.0		98	70-130	5	30
2,2-Dichloropropane	**20.1**		µg/kg wet		20.0		101	70-130	2	30
1,1-Dichloropropene	**20.0**		µg/kg wet		20.0		100	70-130	2	30
cis-1,3-Dichloropropene	**19.0**		µg/kg wet		20.0		95	70-130	4	30
trans-1,3-Dichloropropene	**18.3**		µg/kg wet		20.0		91	70-130	5	30
Ethylbenzene	**21.0**		µg/kg wet		20.0		105	70-130	1	30
Hexachlorobutadiene	**18.4**		µg/kg wet		20.0		92	70-130	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320704 - SW846 5035A Soil (low level)										
LCS Dup (1320704-BSD1)					Prepared & Analyzed: 28-Aug-13					
2-Hexanone (MBK)	**18.7**		µg/kg wet		20.0		93	70-130	10	30
Isopropylbenzene	**20.9**		µg/kg wet		20.0		104	70-130	0.9	30
4-Isopropyltoluene	**20.6**		µg/kg wet		20.0		103	70-130	1	30
Methyl tert-butyl ether	**23.9**		µg/kg wet		20.0		120	70-130	5	30
4-Methyl-2-pentanone (MIBK)	**18.9**		µg/kg wet		20.0		95	70-130	4	30
Methylene chloride	**19.2**		µg/kg wet		20.0		96	70-130	2	30
Naphthalene	**16.9**		µg/kg wet		20.0		84	70-130	7	30
n-Propylbenzene	**21.7**		µg/kg wet		20.0		109	70-130	0.3	30
Styrene	**21.6**		µg/kg wet		20.0		108	70-130	0.2	30
1,1,1,2-Tetrachloroethane	**19.3**		µg/kg wet		20.0		96	70-130	0.5	30
1,1,2,2-Tetrachloroethane	**20.3**		µg/kg wet		20.0		102	70-130	3	30
Tetrachloroethene	**20.4**		µg/kg wet		20.0		102	70-130	0.4	30
Toluene	**19.9**		µg/kg wet		20.0		100	70-130	0.05	30
1,2,3-Trichlorobenzene	**18.5**		µg/kg wet		20.0		92	70-130	5	30
1,2,4-Trichlorobenzene	**17.6**		µg/kg wet		20.0		88	70-130	7	30
1,3,5-Trichlorobenzene	**19.8**		µg/kg wet		20.0		99	70-130	2	30
1,1,1-Trichloroethane	**20.1**		µg/kg wet		20.0		101	70-130	0.2	30
1,1,2-Trichloroethane	**19.8**		µg/kg wet		20.0		99	70-130	3	30
Trichloroethene	**19.8**		µg/kg wet		20.0		99	70-130	0.9	30
Trichlorofluoromethane (Freon 11)	**18.8**		µg/kg wet		20.0		94	70-130	0.05	30
1,2,3-Trichloropropane	**19.1**		µg/kg wet		20.0		95	70-130	3	30
1,2,4-Trimethylbenzene	**21.0**		µg/kg wet		20.0		105	70-130	0.6	30
1,3,5-Trimethylbenzene	**21.8**		µg/kg wet		20.0		109	70-130	0.8	30
Vinyl chloride	**20.4**		µg/kg wet		20.0		102	70-130	3	30
m,p-Xylene	**43.6**		µg/kg wet		40.0		109	70-130	0.8	30
o-Xylene	**21.7**		µg/kg wet		20.0		109	70-130	0.1	30
Tetrahydrofuran	**18.2**		µg/kg wet		20.0		91	70-130	11	30
Ethyl ether	**20.0**		µg/kg wet		20.0		100	70-130	6	30
Tert-amyl methyl ether	**18.1**		µg/kg wet		20.0		90	70-130	4	30
Ethyl tert-butyl ether	**24.5**		µg/kg wet		20.0		123	70-130	2	30
Di-isopropyl ether	**22.6**		µg/kg wet		20.0		113	70-130	0.09	30
Tert-Butanol / butyl alcohol	**207**		µg/kg wet		200		103	70-130	9	30
1,4-Dioxane	**212**		µg/kg wet		200		106	70-130	4	30
trans-1,4-Dichloro-2-butene	**18.0**		µg/kg wet		20.0		90	70-130	8	30
Ethanol	**333**		µg/kg wet		400		83	70-130	12	30
Surrogate: 4-Bromofluorobenzene	*52.2*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*45.4*		µg/kg wet		*50.0*		*91*	*70-130*		
Surrogate: Dibromofluoromethane	*48.3*		µg/kg wet		*50.0*		*97*	*70-130*		
Batch 1320706 - SW846 5035A Soil (low level)										
Blank (1320706-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0		µg/kg wet	5.0						
Acetone	< 50.0		µg/kg wet	50.0						
Acrylonitrile	< 5.0		µg/kg wet	5.0						
Benzene	< 5.0		µg/kg wet	5.0						
Bromobenzene	< 5.0		µg/kg wet	5.0						
Bromochloromethane	< 5.0		µg/kg wet	5.0						
Bromodichloromethane	< 5.0		µg/kg wet	5.0						
Bromoform	< 5.0		µg/kg wet	5.0						
Bromomethane	< 10.0		µg/kg wet	10.0						
2-Butanone (MEK)	< 50.0		µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320706 - SW846 5035A Soil (low level)										
Blank (1320706-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
n-Butylbenzene	< 5.0		µg/kg wet	5.0						
sec-Butylbenzene	< 5.0		µg/kg wet	5.0						
tert-Butylbenzene	< 5.0		µg/kg wet	5.0						
Carbon disulfide	< 10.0		µg/kg wet	10.0						
Carbon tetrachloride	< 5.0		µg/kg wet	5.0						
Chlorobenzene	< 5.0		µg/kg wet	5.0						
Chloroethane	< 10.0		µg/kg wet	10.0						
Chloroform	< 5.0		µg/kg wet	5.0						
Chloromethane	< 10.0		µg/kg wet	10.0						
2-Chlorotoluene	< 5.0		µg/kg wet	5.0						
4-Chlorotoluene	< 5.0		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	< 10.0		µg/kg wet	10.0						
Dibromochloromethane	< 5.0		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	< 5.0		µg/kg wet	5.0						
Dibromomethane	< 5.0		µg/kg wet	5.0						
1,2-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,4-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	< 10.0		µg/kg wet	10.0						
1,1-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,2-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,1-Dichloroethene	< 5.0		µg/kg wet	5.0						
cis-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
trans-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
1,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,3-Dichloropropane	< 5.0		µg/kg wet	5.0						
2,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,1-Dichloropropene	< 5.0		µg/kg wet	5.0						
cis-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
trans-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
Ethylbenzene	< 5.0		µg/kg wet	5.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 50.0		µg/kg wet	50.0						
Isopropylbenzene	< 5.0		µg/kg wet	5.0						
4-Isopropyltoluene	< 5.0		µg/kg wet	5.0						
Methyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	< 50.0		µg/kg wet	50.0						
Methylene chloride	< 10.0		µg/kg wet	10.0						
Naphthalene	< 5.0		µg/kg wet	5.0						
n-Propylbenzene	< 5.0		µg/kg wet	5.0						
Styrene	< 5.0		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						
Tetrachloroethene	< 5.0		µg/kg wet	5.0						
Toluene	< 5.0		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,1,1-Trichloroethane	< 5.0		µg/kg wet	5.0						
1,1,2-Trichloroethane	< 5.0		µg/kg wet	5.0						
Trichloroethene	< 5.0		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	< 5.0		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320706 - SW846 5035A Soil (low level)										
Blank (1320706-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1,2,3-Trichloropropane	< 5.0		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
Vinyl chloride	< 5.0		µg/kg wet	5.0						
m,p-Xylene	< 10.0		µg/kg wet	10.0						
o-Xylene	< 5.0		µg/kg wet	5.0						
Tetrahydrofuran	< 10.0		µg/kg wet	10.0						
Ethyl ether	< 5.0		µg/kg wet	5.0						
Tert-amyl methyl ether	< 5.0		µg/kg wet	5.0						
Ethyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
Di-isopropyl ether	< 5.0		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	< 50.0		µg/kg wet	50.0						
1,4-Dioxane	< 100		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0		µg/kg wet	25.0						
Ethanol	< 2000		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	*47.4*		µg/kg wet		*50.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*52.2*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*63.2*		µg/kg wet		*50.0*		*126*	*70-130*		
Surrogate: Dibromofluoromethane	*55.2*		µg/kg wet		*50.0*		*110*	*70-130*		
LCS (1320706-BS1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.9**		µg/kg wet		20.0		104	70-130		
Acetone	**20.6**		µg/kg wet		20.0		103	70-130		
Acrylonitrile	**21.8**		µg/kg wet		20.0		109	70-130		
Benzene	**21.2**		µg/kg wet		20.0		106	70-130		
Bromobenzene	**20.2**		µg/kg wet		20.0		101	70-130		
Bromochloromethane	**20.4**		µg/kg wet		20.0		102	70-130		
Bromodichloromethane	**20.5**		µg/kg wet		20.0		102	70-130		
Bromoform	**20.2**		µg/kg wet		20.0		101	70-130		
Bromomethane	**19.8**		µg/kg wet		20.0		99	70-130		
2-Butanone (MEK)	**16.8**		µg/kg wet		20.0		84	70-130		
n-Butylbenzene	**21.0**		µg/kg wet		20.0		105	70-130		
sec-Butylbenzene	**22.5**		µg/kg wet		20.0		112	70-130		
tert-Butylbenzene	**22.2**		µg/kg wet		20.0		111	70-130		
Carbon disulfide	**18.8**		µg/kg wet		20.0		94	70-130		
Carbon tetrachloride	**21.6**		µg/kg wet		20.0		108	70-130		
Chlorobenzene	**20.1**		µg/kg wet		20.0		101	70-130		
Chloroethane	**20.6**		µg/kg wet		20.0		103	70-130		
Chloroform	**19.6**		µg/kg wet		20.0		98	70-130		
Chloromethane	**20.6**		µg/kg wet		20.0		103	70-130		
2-Chlorotoluene	**21.3**		µg/kg wet		20.0		106	70-130		
4-Chlorotoluene	**22.1**		µg/kg wet		20.0		110	70-130		
1,2-Dibromo-3-chloropropane	**19.7**		µg/kg wet		20.0		99	70-130		
Dibromochloromethane	**21.1**		µg/kg wet		20.0		106	70-130		
1,2-Dibromoethane (EDB)	**21.0**		µg/kg wet		20.0		105	70-130		
Dibromomethane	**20.7**		µg/kg wet		20.0		104	70-130		
1,2-Dichlorobenzene	**19.7**		µg/kg wet		20.0		99	70-130		
1,3-Dichlorobenzene	**21.2**		µg/kg wet		20.0		106	70-130		
1,4-Dichlorobenzene	**19.4**		µg/kg wet		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	**22.0**		µg/kg wet		20.0		110	70-130		
1,1-Dichloroethane	**20.7**		µg/kg wet		20.0		103	70-130		
1,2-Dichloroethane	**20.2**		µg/kg wet		20.0		101	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320706 - SW846 5035A Soil (low level)										
LCS (1320706-BS1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1,1-Dichloroethene	**21.2**		µg/kg wet		20.0		106	70-130		
cis-1,2-Dichloroethene	**21.5**		µg/kg wet		20.0		108	70-130		
trans-1,2-Dichloroethene	**20.0**		µg/kg wet		20.0		100	70-130		
1,2-Dichloropropane	**21.4**		µg/kg wet		20.0		107	70-130		
1,3-Dichloropropane	**20.8**		µg/kg wet		20.0		104	70-130		
2,2-Dichloropropane	**22.9**		µg/kg wet		20.0		114	70-130		
1,1-Dichloropropene	**21.6**		µg/kg wet		20.0		108	70-130		
cis-1,3-Dichloropropene	**20.2**		µg/kg wet		20.0		101	70-130		
trans-1,3-Dichloropropene	**20.0**		µg/kg wet		20.0		100	70-130		
Ethylbenzene	**21.5**		µg/kg wet		20.0		108	70-130		
Hexachlorobutadiene	**19.8**		µg/kg wet		20.0		99	70-130		
2-Hexanone (MBK)	**19.2**		µg/kg wet		20.0		96	70-130		
Isopropylbenzene	**21.3**		µg/kg wet		20.0		106	70-130		
4-Isopropyltoluene	**21.3**		µg/kg wet		20.0		106	70-130		
Methyl tert-butyl ether	**23.0**		µg/kg wet		20.0		115	70-130		
4-Methyl-2-pentanone (MIBK)	**18.0**		µg/kg wet		20.0		90	70-130		
Methylene chloride	**19.2**		µg/kg wet		20.0		96	70-130		
Naphthalene	**17.8**		µg/kg wet		20.0		89	70-130		
n-Propylbenzene	**22.3**		µg/kg wet		20.0		112	70-130		
Styrene	**21.6**		µg/kg wet		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	**19.7**		µg/kg wet		20.0		99	70-130		
1,1,2,2-Tetrachloroethane	**20.9**		µg/kg wet		20.0		104	70-130		
Tetrachloroethene	**22.2**		µg/kg wet		20.0		111	70-130		
Toluene	**20.7**		µg/kg wet		20.0		103	70-130		
1,2,3-Trichlorobenzene	**19.2**		µg/kg wet		20.0		96	70-130		
1,2,4-Trichlorobenzene	**19.2**		µg/kg wet		20.0		96	70-130		
1,3,5-Trichlorobenzene	**20.7**		µg/kg wet		20.0		103	70-130		
1,1,1-Trichloroethane	**21.8**		µg/kg wet		20.0		109	70-130		
1,1,2-Trichloroethane	**20.2**		µg/kg wet		20.0		101	70-130		
Trichloroethene	**20.6**		µg/kg wet		20.0		103	70-130		
Trichlorofluoromethane (Freon 11)	**21.8**		µg/kg wet		20.0		109	70-130		
1,2,3-Trichloropropane	**19.7**		µg/kg wet		20.0		98	70-130		
1,2,4-Trimethylbenzene	**21.8**		µg/kg wet		20.0		109	70-130		
1,3,5-Trimethylbenzene	**22.3**		µg/kg wet		20.0		111	70-130		
Vinyl chloride	**22.2**		µg/kg wet		20.0		111	70-130		
m,p-Xylene	**43.9**		µg/kg wet		40.0		110	70-130		
o-Xylene	**22.0**		µg/kg wet		20.0		110	70-130		
Tetrahydrofuran	**18.9**		µg/kg wet		20.0		95	70-130		
Ethyl ether	**20.8**		µg/kg wet		20.0		104	70-130		
Tert-amyl methyl ether	**19.6**		µg/kg wet		20.0		98	70-130		
Ethyl tert-butyl ether	**23.3**		µg/kg wet		20.0		117	70-130		
Di-isopropyl ether	**22.2**		µg/kg wet		20.0		111	70-130		
Tert-Butanol / butyl alcohol	**210**		µg/kg wet		200		105	70-130		
1,4-Dioxane	**205**		µg/kg wet		200		103	70-130		
trans-1,4-Dichloro-2-butene	**17.7**		µg/kg wet		20.0		88	70-130		
Ethanol	**366**		µg/kg wet		400		91	70-130		
Surrogate: 4-Bromofluorobenzene	*52.8*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.8*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
LCS Dup (1320706-BSD1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320706 - SW846 5035A Soil (low level)										
LCS Dup (1320706-BSD1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.9**		µg/kg wet		20.0		104	70-130	0.05	30
Acetone	**22.7**		µg/kg wet		20.0		113	70-130	10	30
Acrylonitrile	**23.2**		µg/kg wet		20.0		116	70-130	6	30
Benzene	**21.0**		µg/kg wet		20.0		105	70-130	1	30
Bromobenzene	**20.6**		µg/kg wet		20.0		103	70-130	2	30
Bromochloromethane	**20.5**		µg/kg wet		20.0		102	70-130	0.3	30
Bromodichloromethane	**20.4**		µg/kg wet		20.0		102	70-130	0.5	30
Bromoform	**21.6**		µg/kg wet		20.0		108	70-130	7	30
Bromomethane	**19.8**		µg/kg wet		20.0		99	70-130	0.05	30
2-Butanone (MEK)	**17.7**		µg/kg wet		20.0		89	70-130	5	30
n-Butylbenzene	**20.4**		µg/kg wet		20.0		102	70-130	3	30
sec-Butylbenzene	**22.3**		µg/kg wet		20.0		112	70-130	0.5	30
tert-Butylbenzene	**22.2**		µg/kg wet		20.0		111	70-130	0.2	30
Carbon disulfide	**18.6**		µg/kg wet		20.0		93	70-130	0.9	30
Carbon tetrachloride	**21.2**		µg/kg wet		20.0		106	70-130	2	30
Chlorobenzene	**19.9**		µg/kg wet		20.0		100	70-130	1	30
Chloroethane	**20.5**		µg/kg wet		20.0		103	70-130	0.2	30
Chloroform	**19.2**		µg/kg wet		20.0		96	70-130	2	30
Chloromethane	**20.6**		µg/kg wet		20.0		103	70-130	0.05	30
2-Chlorotoluene	**21.2**		µg/kg wet		20.0		106	70-130	0.2	30
4-Chlorotoluene	**22.2**		µg/kg wet		20.0		111	70-130	0.8	30
1,2-Dibromo-3-chloropropane	**20.1**		µg/kg wet		20.0		100	70-130	2	30
Dibromochloromethane	**21.0**		µg/kg wet		20.0		105	70-130	0.3	30
1,2-Dibromoethane (EDB)	**21.6**		µg/kg wet		20.0		108	70-130	3	30
Dibromomethane	**20.6**		µg/kg wet		20.0		103	70-130	0.8	30
1,2-Dichlorobenzene	**19.8**		µg/kg wet		20.0		99	70-130	0.05	30
1,3-Dichlorobenzene	**21.2**		µg/kg wet		20.0		106	70-130	0.3	30
1,4-Dichlorobenzene	**19.5**		µg/kg wet		20.0		97	70-130	0.2	30
Dichlorodifluoromethane (Freon12)	**21.7**		µg/kg wet		20.0		108	70-130	2	30
1,1-Dichloroethane	**20.3**		µg/kg wet		20.0		101	70-130	2	30
1,2-Dichloroethane	**20.4**		µg/kg wet		20.0		102	70-130	1	30
1,1-Dichloroethene	**21.1**		µg/kg wet		20.0		105	70-130	0.4	30
cis-1,2-Dichloroethene	**21.7**		µg/kg wet		20.0		109	70-130	0.8	30
trans-1,2-Dichloroethene	**20.4**		µg/kg wet		20.0		102	70-130	2	30
1,2-Dichloropropane	**21.1**		µg/kg wet		20.0		105	70-130	2	30
1,3-Dichloropropane	**20.9**		µg/kg wet		20.0		105	70-130	0.6	30
2,2-Dichloropropane	**22.4**		µg/kg wet		20.0		112	70-130	2	30
1,1-Dichloropropene	**21.0**		µg/kg wet		20.0		105	70-130	3	30
cis-1,3-Dichloropropene	**20.3**		µg/kg wet		20.0		101	70-130	0.1	30
trans-1,3-Dichloropropene	**19.7**		µg/kg wet		20.0		99	70-130	1	30
Ethylbenzene	**21.3**		µg/kg wet		20.0		106	70-130	1	30
Hexachlorobutadiene	**19.8**		µg/kg wet		20.0		99	70-130	0.2	30
2-Hexanone (MBK)	**21.4**		µg/kg wet		20.0		107	70-130	11	30
Isopropylbenzene	**21.3**		µg/kg wet		20.0		107	70-130	0.3	30
4-Isopropyltoluene	**21.2**		µg/kg wet		20.0		106	70-130	0.4	30
Methyl tert-butyl ether	**23.4**		µg/kg wet		20.0		117	70-130	2	30
4-Methyl-2-pentanone (MIBK)	**20.8**		µg/kg wet		20.0		104	70-130	14	30
Methylene chloride	**20.2**		µg/kg wet		20.0		101	70-130	5	30
Naphthalene	**18.2**		µg/kg wet		20.0		91	70-130	3	30
n-Propylbenzene	**22.1**		µg/kg wet		20.0		111	70-130	0.9	30
Styrene	**21.3**		µg/kg wet		20.0		107	70-130	1	30
1,1,1,2-Tetrachloroethane	**20.0**		µg/kg wet		20.0		100	70-130	1	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320706 - SW846 5035A Soil (low level)										
LCS Dup (1320706-BSD1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1,1,2,2-Tetrachloroethane	**21.9**		µg/kg wet		20.0		109	70-130	5	30
Tetrachloroethene	**21.5**		µg/kg wet		20.0		107	70-130	3	30
Toluene	**20.6**		µg/kg wet		20.0		103	70-130	0.5	30
1,2,3-Trichlorobenzene	**19.9**		µg/kg wet		20.0		99	70-130	4	30
1,2,4-Trichlorobenzene	**18.9**		µg/kg wet		20.0		94	70-130	2	30
1,3,5-Trichlorobenzene	**20.7**		µg/kg wet		20.0		103	70-130	0.1	30
1,1,1-Trichloroethane	**21.4**		µg/kg wet		20.0		107	70-130	2	30
1,1,2-Trichloroethane	**21.5**		µg/kg wet		20.0		108	70-130	6	30
Trichloroethene	**20.7**		µg/kg wet		20.0		104	70-130	0.2	30
Trichlorofluoromethane (Freon 11)	**21.2**		µg/kg wet		20.0		106	70-130	3	30
1,2,3-Trichloropropane	**20.9**		µg/kg wet		20.0		104	70-130	6	30
1,2,4-Trimethylbenzene	**21.5**		µg/kg wet		20.0		107	70-130	2	30
1,3,5-Trimethylbenzene	**22.1**		µg/kg wet		20.0		110	70-130	0.9	30
Vinyl chloride	**22.0**		µg/kg wet		20.0		110	70-130	1	30
m,p-Xylene	**43.8**		µg/kg wet		40.0		109	70-130	0.3	30
o-Xylene	**22.3**		µg/kg wet		20.0		111	70-130	1	30
Tetrahydrofuran	**19.4**		µg/kg wet		20.0		97	70-130	3	30
Ethyl ether	**21.4**		µg/kg wet		20.0		107	70-130	3	30
Tert-amyl methyl ether	**20.0**		µg/kg wet		20.0		100	70-130	2	30
Ethyl tert-butyl ether	**23.4**		µg/kg wet		20.0		117	70-130	0.3	30
Di-isopropyl ether	**22.4**		µg/kg wet		20.0		112	70-130	0.6	30
Tert-Butanol / butyl alcohol	**234**		µg/kg wet		200		117	70-130	11	30
1,4-Dioxane	**205**		µg/kg wet		200		103	70-130	0.1	30
trans-1,4-Dichloro-2-butene	**20.6**		µg/kg wet		20.0		103	70-130	15	30
Ethanol	**410**		µg/kg wet		400		102	70-130	11	30
Surrogate: 4-Bromofluorobenzene	*54.0*		µg/kg wet		*50.0*		*108*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.0*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
Batch 1320839 - SW846 5035A Soil (low level)										
Blank (1320839-BLK1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0		µg/kg wet	5.0						
Acetone	< 50.0		µg/kg wet	50.0						
Acrylonitrile	< 5.0		µg/kg wet	5.0						
Benzene	< 5.0		µg/kg wet	5.0						
Bromobenzene	< 5.0		µg/kg wet	5.0						
Bromochloromethane	< 5.0		µg/kg wet	5.0						
Bromodichloromethane	< 5.0		µg/kg wet	5.0						
Bromoform	< 5.0		µg/kg wet	5.0						
Bromomethane	< 10.0		µg/kg wet	10.0						
2-Butanone (MEK)	< 50.0		µg/kg wet	50.0						
n-Butylbenzene	< 5.0		µg/kg wet	5.0						
sec-Butylbenzene	< 5.0		µg/kg wet	5.0						
tert-Butylbenzene	< 5.0		µg/kg wet	5.0						
Carbon disulfide	< 10.0		µg/kg wet	10.0						
Carbon tetrachloride	< 5.0		µg/kg wet	5.0						
Chlorobenzene	< 5.0		µg/kg wet	5.0						
Chloroethane	< 10.0		µg/kg wet	10.0						
Chloroform	< 5.0		µg/kg wet	5.0						
Chloromethane	< 10.0		µg/kg wet	10.0						
2-Chlorotoluene	< 5.0		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320839 - SW846 5035A Soil (low level)										
Blank (1320839-BLK1)					Prepared & Analyzed: 29-Aug-13					
4-Chlorotoluene	< 5.0		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	< 10.0		µg/kg wet	10.0						
Dibromochloromethane	< 5.0		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	< 5.0		µg/kg wet	5.0						
Dibromomethane	< 5.0		µg/kg wet	5.0						
1,2-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,4-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	< 10.0		µg/kg wet	10.0						
1,1-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,2-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,1-Dichloroethene	< 5.0		µg/kg wet	5.0						
cis-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
trans-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
1,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,3-Dichloropropane	< 5.0		µg/kg wet	5.0						
2,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,1-Dichloropropene	< 5.0		µg/kg wet	5.0						
cis-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
trans-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
Ethylbenzene	< 5.0		µg/kg wet	5.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 50.0		µg/kg wet	50.0						
Isopropylbenzene	< 5.0		µg/kg wet	5.0						
4-Isopropyltoluene	< 5.0		µg/kg wet	5.0						
Methyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	< 50.0		µg/kg wet	50.0						
Methylene chloride	< 10.0		µg/kg wet	10.0						
Naphthalene	< 5.0		µg/kg wet	5.0						
n-Propylbenzene	< 5.0		µg/kg wet	5.0						
Styrene	< 5.0		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						
Tetrachloroethene	< 5.0		µg/kg wet	5.0						
Toluene	< 5.0		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,1,1-Trichloroethane	< 5.0		µg/kg wet	5.0						
1,1,2-Trichloroethane	< 5.0		µg/kg wet	5.0						
Trichloroethene	< 5.0		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	< 5.0		µg/kg wet	5.0						
1,2,3-Trichloropropane	< 5.0		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
Vinyl chloride	< 5.0		µg/kg wet	5.0						
m,p-Xylene	< 10.0		µg/kg wet	10.0						
o-Xylene	< 5.0		µg/kg wet	5.0						
Tetrahydrofuran	< 10.0		µg/kg wet	10.0						
Ethyl ether	< 5.0		µg/kg wet	5.0						
Tert-amyl methyl ether	< 5.0		µg/kg wet	5.0						
Ethyl tert-butyl ether	< 5.0		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320839 - SW846 5035A Soil (low level)										
Blank (1320839-BLK1)					Prepared & Analyzed: 29-Aug-13					
Di-isopropyl ether	< 5.0		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	< 50.0		µg/kg wet	50.0						
1,4-Dioxane	< 100		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0		µg/kg wet	25.0						
Ethanol	< 2000		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	*46.8*		µg/kg wet		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*51.2*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*57.9*		µg/kg wet		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*52.4*		µg/kg wet		*50.0*		*105*	*70-130*		
LCS (1320839-BS1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.0**		µg/kg wet		20.0		105	70-130		
Acetone	**19.1**		µg/kg wet		20.0		96	70-130		
Acrylonitrile	**20.0**		µg/kg wet		20.0		100	70-130		
Benzene	**21.1**		µg/kg wet		20.0		106	70-130		
Bromobenzene	**20.6**		µg/kg wet		20.0		103	70-130		
Bromochloromethane	**21.1**		µg/kg wet		20.0		105	70-130		
Bromodichloromethane	**19.9**		µg/kg wet		20.0		99	70-130		
Bromoform	**19.6**		µg/kg wet		20.0		98	70-130		
Bromomethane	**18.6**		µg/kg wet		20.0		93	70-130		
2-Butanone (MEK)	**13.5**		µg/kg wet		20.0		68	70-130		
n-Butylbenzene	**20.8**		µg/kg wet		20.0		104	70-130		
sec-Butylbenzene	**22.7**		µg/kg wet		20.0		114	70-130		
tert-Butylbenzene	**22.4**		µg/kg wet		20.0		112	70-130		
Carbon disulfide	**18.6**		µg/kg wet		20.0		93	70-130		
Carbon tetrachloride	**20.5**		µg/kg wet		20.0		103	70-130		
Chlorobenzene	**20.6**		µg/kg wet		20.0		103	70-130		
Chloroethane	**20.0**		µg/kg wet		20.0		100	70-130		
Chloroform	**19.0**		µg/kg wet		20.0		95	70-130		
Chloromethane	**19.8**		µg/kg wet		20.0		99	70-130		
2-Chlorotoluene	**21.3**		µg/kg wet		20.0		106	70-130		
4-Chlorotoluene	**22.1**		µg/kg wet		20.0		110	70-130		
1,2-Dibromo-3-chloropropane	**17.4**		µg/kg wet		20.0		87	70-130		
Dibromochloromethane	**19.7**		µg/kg wet		20.0		98	70-130		
1,2-Dibromoethane (EDB)	**20.0**		µg/kg wet		20.0		100	70-130		
Dibromomethane	**20.8**		µg/kg wet		20.0		104	70-130		
1,2-Dichlorobenzene	**19.7**		µg/kg wet		20.0		98	70-130		
1,3-Dichlorobenzene	**20.8**		µg/kg wet		20.0		104	70-130		
1,4-Dichlorobenzene	**19.1**		µg/kg wet		20.0		95	70-130		
Dichlorodifluoromethane (Freon12)	**20.0**		µg/kg wet		20.0		100	70-130		
1,1-Dichloroethane	**19.8**		µg/kg wet		20.0		99	70-130		
1,2-Dichloroethane	**19.3**		µg/kg wet		20.0		97	70-130		
1,1-Dichloroethene	**21.1**		µg/kg wet		20.0		105	70-130		
cis-1,2-Dichloroethene	**21.7**		µg/kg wet		20.0		108	70-130		
trans-1,2-Dichloroethene	**20.6**		µg/kg wet		20.0		103	70-130		
1,2-Dichloropropane	**21.0**		µg/kg wet		20.0		105	70-130		
1,3-Dichloropropane	**20.0**		µg/kg wet		20.0		100	70-130		
2,2-Dichloropropane	**20.4**		µg/kg wet		20.0		102	70-130		
1,1-Dichloropropene	**21.0**		µg/kg wet		20.0		105	70-130		
cis-1,3-Dichloropropene	**19.5**		µg/kg wet		20.0		97	70-130		
trans-1,3-Dichloropropene	**18.3**		µg/kg wet		20.0		91	70-130		
Ethylbenzene	**21.9**		µg/kg wet		20.0		110	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320839 - SW846 5035A Soil (low level)										
LCS (1320839-BS1)					Prepared & Analyzed: 29-Aug-13					
Hexachlorobutadiene	**18.8**		µg/kg wet		20.0		94	70-130		
2-Hexanone (MBK)	**18.1**		µg/kg wet		20.0		91	70-130		
Isopropylbenzene	**22.0**		µg/kg wet		20.0		110	70-130		
4-Isopropyltoluene	**21.2**		µg/kg wet		20.0		106	70-130		
Methyl tert-butyl ether	**23.5**		µg/kg wet		20.0		118	70-130		
4-Methyl-2-pentanone (MIBK)	**17.7**		µg/kg wet		20.0		88	70-130		
Methylene chloride	**19.4**		µg/kg wet		20.0		97	70-130		
Naphthalene	**17.5**		µg/kg wet		20.0		88	70-130		
n-Propylbenzene	**22.3**		µg/kg wet		20.0		112	70-130		
Styrene	**22.6**		µg/kg wet		20.0		113	70-130		
1,1,1,2-Tetrachloroethane	**20.4**		µg/kg wet		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	**20.8**		µg/kg wet		20.0		104	70-130		
Tetrachloroethene	**21.1**		µg/kg wet		20.0		106	70-130		
Toluene	**20.0**		µg/kg wet		20.0		100	70-130		
1,2,3-Trichlorobenzene	**19.0**		µg/kg wet		20.0		95	70-130		
1,2,4-Trichlorobenzene	**18.4**		µg/kg wet		20.0		92	70-130		
1,3,5-Trichlorobenzene	**19.9**		µg/kg wet		20.0		100	70-130		
1,1,1-Trichloroethane	**21.3**		µg/kg wet		20.0		107	70-130		
1,1,2-Trichloroethane	**20.0**		µg/kg wet		20.0		100	70-130		
Trichloroethene	**20.4**		µg/kg wet		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	**20.4**		µg/kg wet		20.0		102	70-130		
1,2,3-Trichloropropane	**19.8**		µg/kg wet		20.0		99	70-130		
1,2,4-Trimethylbenzene	**21.7**		µg/kg wet		20.0		108	70-130		
1,3,5-Trimethylbenzene	**22.4**		µg/kg wet		20.0		112	70-130		
Vinyl chloride	**21.8**		µg/kg wet		20.0		109	70-130		
m,p-Xylene	**45.5**		µg/kg wet		40.0		114	70-130		
o-Xylene	**22.1**		µg/kg wet		20.0		110	70-130		
Tetrahydrofuran	**18.8**		µg/kg wet		20.0		94	70-130		
Ethyl ether	**20.3**		µg/kg wet		20.0		102	70-130		
Tert-amyl methyl ether	**19.1**		µg/kg wet		20.0		96	70-130		
Ethyl tert-butyl ether	**24.3**		µg/kg wet		20.0		121	70-130		
Di-isopropyl ether	**22.7**		µg/kg wet		20.0		113	70-130		
Tert-Butanol / butyl alcohol	**206**		µg/kg wet		200		103	70-130		
1,4-Dioxane	**217**		µg/kg wet		200		109	70-130		
trans-1,4-Dichloro-2-butene	**17.4**		µg/kg wet		20.0		87	70-130		
Ethanol	**352**		µg/kg wet		400		88	70-130		
Surrogate: 4-Bromofluorobenzene	*53.5*		µg/kg wet		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*50.2*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.3*		µg/kg wet		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		
LCS Dup (1320839-BSD1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.9**		µg/kg wet		20.0		100	70-130	5	30
Acetone	**16.9**		µg/kg wet		20.0		84	70-130	12	30
Acrylonitrile	**18.0**		µg/kg wet		20.0		90	70-130	10	30
Benzene	**20.4**		µg/kg wet		20.0		102	70-130	4	30
Bromobenzene	**19.6**		µg/kg wet		20.0		98	70-130	5	30
Bromochloromethane	**19.4**		µg/kg wet		20.0		97	70-130	8	30
Bromodichloromethane	**19.0**		µg/kg wet		20.0		95	70-130	5	30
Bromoform	**18.7**		µg/kg wet		20.0		94	70-130	5	30
Bromomethane	**18.5**		µg/kg wet		20.0		93	70-130	0.4	30
2-Butanone (MEK)	**17.1**		µg/kg wet		20.0		85	70-130	23	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320839 - SW846 5035A Soil (low level)										
LCS Dup (1320839-BSD1)					Prepared & Analyzed: 29-Aug-13					
n-Butylbenzene	**19.6**		µg/kg wet		20.0		98	70-130	6	30
sec-Butylbenzene	**22.0**		µg/kg wet		20.0		110	70-130	3	30
tert-Butylbenzene	**21.9**		µg/kg wet		20.0		109	70-130	2	30
Carbon disulfide	**17.9**		µg/kg wet		20.0		90	70-130	4	30
Carbon tetrachloride	**20.0**		µg/kg wet		20.0		100	70-130	3	30
Chlorobenzene	**19.8**		µg/kg wet		20.0		99	70-130	4	30
Chloroethane	**19.9**		µg/kg wet		20.0		99	70-130	0.5	30
Chloroform	**17.9**		µg/kg wet		20.0		90	70-130	6	30
Chloromethane	**19.8**		µg/kg wet		20.0		99	70-130	0.05	30
2-Chlorotoluene	**20.2**		µg/kg wet		20.0		101	70-130	5	30
4-Chlorotoluene	**20.7**		µg/kg wet		20.0		103	70-130	6	30
1,2-Dibromo-3-chloropropane	**16.9**		µg/kg wet		20.0		84	70-130	3	30
Dibromochloromethane	**19.0**		µg/kg wet		20.0		95	70-130	4	30
1,2-Dibromoethane (EDB)	**18.9**		µg/kg wet		20.0		95	70-130	5	30
Dibromomethane	**19.6**		µg/kg wet		20.0		98	70-130	6	30
1,2-Dichlorobenzene	**19.3**		µg/kg wet		20.0		96	70-130	2	30
1,3-Dichlorobenzene	**19.6**		µg/kg wet		20.0		98	70-130	6	30
1,4-Dichlorobenzene	**18.5**		µg/kg wet		20.0		92	70-130	3	30
Dichlorodifluoromethane (Freon12)	**19.8**		µg/kg wet		20.0		99	70-130	0.5	30
1,1-Dichloroethane	**19.4**		µg/kg wet		20.0		97	70-130	2	30
1,2-Dichloroethane	**18.3**		µg/kg wet		20.0		92	70-130	5	30
1,1-Dichloroethene	**20.8**		µg/kg wet		20.0		104	70-130	1	30
cis-1,2-Dichloroethene	**20.5**		µg/kg wet		20.0		102	70-130	6	30
trans-1,2-Dichloroethene	**19.9**		µg/kg wet		20.0		99	70-130	4	30
1,2-Dichloropropane	**20.7**		µg/kg wet		20.0		103	70-130	2	30
1,3-Dichloropropane	**18.9**		µg/kg wet		20.0		94	70-130	6	30
2,2-Dichloropropane	**19.8**		µg/kg wet		20.0		99	70-130	3	30
1,1-Dichloropropene	**20.6**		µg/kg wet		20.0		103	70-130	2	30
cis-1,3-Dichloropropene	**18.9**		µg/kg wet		20.0		94	70-130	3	30
trans-1,3-Dichloropropene	**17.3**		µg/kg wet		20.0		86	70-130	6	30
Ethylbenzene	**21.3**		µg/kg wet		20.0		107	70-130	3	30
Hexachlorobutadiene	**18.5**		µg/kg wet		20.0		93	70-130	2	30
2-Hexanone (MBK)	**16.3**		µg/kg wet		20.0		82	70-130	11	30
Isopropylbenzene	**20.9**		µg/kg wet		20.0		104	70-130	5	30
4-Isopropyltoluene	**20.8**		µg/kg wet		20.0		104	70-130	2	30
Methyl tert-butyl ether	**22.4**		µg/kg wet		20.0		112	70-130	5	30
4-Methyl-2-pentanone (MIBK)	**18.3**		µg/kg wet		20.0		92	70-130	4	30
Methylene chloride	**19.3**		µg/kg wet		20.0		96	70-130	0.4	30
Naphthalene	**15.4**		µg/kg wet		20.0		77	70-130	12	30
n-Propylbenzene	**21.3**		µg/kg wet		20.0		107	70-130	5	30
Styrene	**21.2**		µg/kg wet		20.0		106	70-130	6	30
1,1,1,2-Tetrachloroethane	**19.2**		µg/kg wet		20.0		96	70-130	6	30
1,1,2,2-Tetrachloroethane	**19.2**		µg/kg wet		20.0		96	70-130	8	30
Tetrachloroethene	**20.2**		µg/kg wet		20.0		101	70-130	5	30
Toluene	**19.8**		µg/kg wet		20.0		99	70-130	0.6	30
1,2,3-Trichlorobenzene	**18.1**		µg/kg wet		20.0		90	70-130	5	30
1,2,4-Trichlorobenzene	**17.0**		µg/kg wet		20.0		85	70-130	8	30
1,3,5-Trichlorobenzene	**19.3**		µg/kg wet		20.0		97	70-130	3	30
1,1,1-Trichloroethane	**20.4**		µg/kg wet		20.0		102	70-130	5	30
1,1,2-Trichloroethane	**19.4**		µg/kg wet		20.0		97	70-130	3	30
Trichloroethene	**19.8**		µg/kg wet		20.0		99	70-130	3	30
Trichlorofluoromethane (Freon 11)	**19.7**		µg/kg wet		20.0		99	70-130	3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320839 - SW846 5035A Soil (low level)										
LCS Dup (1320839-BSD1)					Prepared & Analyzed: 29-Aug-13					
1,2,3-Trichloropropane	**18.2**		µg/kg wet		20.0		91	70-130	8	30
1,2,4-Trimethylbenzene	**20.7**		µg/kg wet		20.0		103	70-130	5	30
1,3,5-Trimethylbenzene	**21.2**		µg/kg wet		20.0		106	70-130	6	30
Vinyl chloride	**20.8**		µg/kg wet		20.0		104	70-130	5	30
m,p-Xylene	**43.3**		µg/kg wet		40.0		108	70-130	5	30
o-Xylene	**21.9**		µg/kg wet		20.0		109	70-130	1	30
Tetrahydrofuran	**15.9**		µg/kg wet		20.0		79	70-130	17	30
Ethyl ether	**18.4**		µg/kg wet		20.0		92	70-130	10	30
Tert-amyl methyl ether	**18.0**		µg/kg wet		20.0		90	70-130	6	30
Ethyl tert-butyl ether	**23.0**		µg/kg wet		20.0		115	70-130	5	30
Di-isopropyl ether	**21.5**		µg/kg wet		20.0		107	70-130	5	30
Tert-Butanol / butyl alcohol	**184**		µg/kg wet		200		92	70-130	11	30
1,4-Dioxane	**187**		µg/kg wet		200		93	70-130	15	30
trans-1,4-Dichloro-2-butene	**16.4**		µg/kg wet		20.0		82	70-130	5	30
Ethanol	**306**		µg/kg wet		400		77	70-130	14	30
Surrogate: 4-Bromofluorobenzene	*53.1*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*49.3*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*46.0*		µg/kg wet		*50.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*48.0*		µg/kg wet		*50.0*		*96*	*70-130*		
Batch 1320848 - SW846 5030 Water MS										
Blank (1320848-BLK1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.50		µg/l	0.50						
Benzene	< 1.00		µg/l	1.00						
Bromobenzene	< 1.00		µg/l	1.00						
Bromochloromethane	< 1.00		µg/l	1.00						
Bromodichloromethane	< 0.50		µg/l	0.50						
Bromoform	< 1.00		µg/l	1.00						
Bromomethane	< 2.00		µg/l	2.00						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.00		µg/l	1.00						
sec-Butylbenzene	< 1.00		µg/l	1.00						
tert-Butylbenzene	< 1.00		µg/l	1.00						
Carbon disulfide	< 2.00		µg/l	2.00						
Carbon tetrachloride	< 1.00		µg/l	1.00						
Chlorobenzene	< 1.00		µg/l	1.00						
Chloroethane	< 2.00		µg/l	2.00						
Chloroform	< 1.00		µg/l	1.00						
Chloromethane	< 2.00		µg/l	2.00						
2-Chlorotoluene	< 1.00		µg/l	1.00						
4-Chlorotoluene	< 1.00		µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00						
Dibromochloromethane	< 0.50		µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50						
Dibromomethane	< 1.00		µg/l	1.00						
1,2-Dichlorobenzene	< 1.00		µg/l	1.00						
1,3-Dichlorobenzene	< 1.00		µg/l	1.00						
1,4-Dichlorobenzene	< 1.00		µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00						
1,1-Dichloroethane	< 1.00		µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320848 - SW846 5030 Water MS										
Blank (1320848-BLK1)					Prepared & Analyzed: 29-Aug-13					
1,2-Dichloroethane	< 1.00		µg/l	1.00						
1,1-Dichloroethene	< 1.00		µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00		µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00		µg/l	1.00						
1,2-Dichloropropane	< 1.00		µg/l	1.00						
1,3-Dichloropropane	< 1.00		µg/l	1.00						
2,2-Dichloropropane	< 1.00		µg/l	1.00						
1,1-Dichloropropene	< 1.00		µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50		µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50		µg/l	0.50						
Ethylbenzene	< 1.00		µg/l	1.00						
Hexachlorobutadiene	< 0.50		µg/l	0.50						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.00		µg/l	1.00						
4-Isopropyltoluene	< 1.00		µg/l	1.00						
Methyl tert-butyl ether	< 1.00		µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.00		µg/l	2.00						
Naphthalene	< 1.00		µg/l	1.00						
n-Propylbenzene	< 1.00		µg/l	1.00						
Styrene	< 1.00		µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00						
1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50						
Tetrachloroethene	< 1.00		µg/l	1.00						
Toluene	< 1.00		µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00						
1,1,1-Trichloroethane	< 1.00		µg/l	1.00						
1,1,2-Trichloroethane	< 1.00		µg/l	1.00						
Trichloroethene	< 1.00		µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00						
1,2,3-Trichloropropane	< 1.00		µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00						
Vinyl chloride	< 1.00		µg/l	1.00						
m,p-Xylene	< 2.00		µg/l	2.00						
o-Xylene	< 1.00		µg/l	1.00						
Tetrahydrofuran	< 2.00		µg/l	2.00						
Ethyl ether	< 1.00		µg/l	1.00						
Tert-amyl methyl ether	< 1.00		µg/l	1.00						
Ethyl tert-butyl ether	< 1.00		µg/l	1.00						
Di-isopropyl ether	< 1.00		µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.8*		µg/l		*50.0*		*114*	*70-130*		
Surrogate: Dibromofluoromethane	*50.7*		µg/l		*50.0*		*101*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320848 - SW846 5030 Water MS										
LCS (1320848-BS1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.0**		µg/l		20.0		105	70-130		
Acetone	**15.5**		µg/l		20.0		77	70-130		
Acrylonitrile	**23.1**		µg/l		20.0		116	70-130		
Benzene	**18.5**		µg/l		20.0		93	70-130		
Bromobenzene	**18.4**		µg/l		20.0		92	70-130		
Bromochloromethane	**19.1**		µg/l		20.0		96	70-130		
Bromodichloromethane	**18.7**		µg/l		20.0		94	70-130		
Bromoform	**14.8**		µg/l		20.0		74	70-130		
Bromomethane	**22.5**		µg/l		20.0		113	70-130		
2-Butanone (MEK)	**15.8**		µg/l		20.0		79	70-130		
n-Butylbenzene	**18.3**		µg/l		20.0		91	70-130		
sec-Butylbenzene	**18.2**		µg/l		20.0		91	70-130		
tert-Butylbenzene	**18.2**		µg/l		20.0		91	70-130		
Carbon disulfide	**17.5**		µg/l		20.0		88	70-130		
Carbon tetrachloride	**16.6**		µg/l		20.0		83	70-130		
Chlorobenzene	**18.5**		µg/l		20.0		93	70-130		
Chloroethane	**17.0**		µg/l		20.0		85	70-130		
Chloroform	**21.4**		µg/l		20.0		107	70-130		
Chloromethane	**18.9**		µg/l		20.0		95	70-130		
2-Chlorotoluene	**18.2**		µg/l		20.0		91	70-130		
4-Chlorotoluene	**18.2**		µg/l		20.0		91	70-130		
1,2-Dibromo-3-chloropropane	**15.1**		µg/l		20.0		76	70-130		
Dibromochloromethane	**17.2**		µg/l		20.0		86	70-130		
1,2-Dibromoethane (EDB)	**18.8**		µg/l		20.0		94	70-130		
Dibromomethane	**18.4**		µg/l		20.0		92	70-130		
1,2-Dichlorobenzene	**18.6**		µg/l		20.0		93	70-130		
1,3-Dichlorobenzene	**17.5**		µg/l		20.0		87	70-130		
1,4-Dichlorobenzene	**18.7**		µg/l		20.0		94	70-130		
Dichlorodifluoromethane (Freon12)	**19.6**		µg/l		20.0		98	70-130		
1,1-Dichloroethane	**18.7**		µg/l		20.0		94	70-130		
1,2-Dichloroethane	**21.6**		µg/l		20.0		108	70-130		
1,1-Dichloroethene	**18.7**		µg/l		20.0		94	70-130		
cis-1,2-Dichloroethene	**18.4**		µg/l		20.0		92	70-130		
trans-1,2-Dichloroethene	**18.9**		µg/l		20.0		95	70-130		
1,2-Dichloropropane	**19.6**		µg/l		20.0		98	70-130		
1,3-Dichloropropane	**21.2**		µg/l		20.0		106	70-130		
2,2-Dichloropropane	**20.3**		µg/l		20.0		101	70-130		
1,1-Dichloropropene	**18.7**		µg/l		20.0		94	70-130		
cis-1,3-Dichloropropene	**18.4**		µg/l		20.0		92	70-130		
trans-1,3-Dichloropropene	**17.0**		µg/l		20.0		85	70-130		
Ethylbenzene	**18.7**		µg/l		20.0		94	70-130		
Hexachlorobutadiene	**17.8**		µg/l		20.0		89	70-130		
2-Hexanone (MBK)	**16.2**		µg/l		20.0		81	70-130		
Isopropylbenzene	**18.7**		µg/l		20.0		94	70-130		
4-Isopropyltoluene	**18.7**		µg/l		20.0		93	70-130		
Methyl tert-butyl ether	**17.9**		µg/l		20.0		90	70-130		
4-Methyl-2-pentanone (MIBK)	**17.4**		µg/l		20.0		87	70-130		
Methylene chloride	**21.4**		µg/l		20.0		107	70-130		
Naphthalene	**15.5**		µg/l		20.0		78	70-130		
n-Propylbenzene	**18.6**		µg/l		20.0		93	70-130		
Styrene	**18.3**		µg/l		20.0		91	70-130		
1,1,1,2-Tetrachloroethane	**16.8**		µg/l		20.0		84	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320848 - SW846 5030 Water MS										
LCS (1320848-BS1)						Prepared & Analyzed: 29-Aug-13				
1,1,2,2-Tetrachloroethane	**15.2**		µg/l		20.0		76	70-130		
Tetrachloroethene	**19.9**		µg/l		20.0		100	70-130		
Toluene	**18.4**		µg/l		20.0		92	70-130		
1,2,3-Trichlorobenzene	**13.2**	QC2	µg/l		20.0		66	70-130		
1,2,4-Trichlorobenzene	**12.5**	QC2	µg/l		20.0		62	70-130		
1,3,5-Trichlorobenzene	**16.7**		µg/l		20.0		84	70-130		
1,1,1-Trichloroethane	**19.3**		µg/l		20.0		96	70-130		
1,1,2-Trichloroethane	**19.3**		µg/l		20.0		96	70-130		
Trichloroethene	**19.2**		µg/l		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	**19.9**		µg/l		20.0		100	70-130		
1,2,3-Trichloropropane	**19.2**		µg/l		20.0		96	70-130		
1,2,4-Trimethylbenzene	**18.5**		µg/l		20.0		92	70-130		
1,3,5-Trimethylbenzene	**18.3**		µg/l		20.0		92	70-130		
Vinyl chloride	**20.2**		µg/l		20.0		101	70-130		
m,p-Xylene	**38.2**		µg/l		40.0		96	70-130		
o-Xylene	**18.9**		µg/l		20.0		94	70-130		
Tetrahydrofuran	**17.0**		µg/l		20.0		85	70-130		
Ethyl ether	**20.2**		µg/l		20.0		101	70-130		
Tert-amyl methyl ether	**17.2**		µg/l		20.0		86	70-130		
Ethyl tert-butyl ether	**17.8**		µg/l		20.0		89	70-130		
Di-isopropyl ether	**17.4**		µg/l		20.0		87	70-130		
Tert-Butanol / butyl alcohol	**144**		µg/l		200		72	70-130		
1,4-Dioxane	**162**		µg/l		200		81	70-130		
trans-1,4-Dichloro-2-butene	**14.6**		µg/l		20.0		73	70-130		
Ethanol	**373**		µg/l		400		93	70-130		
Surrogate: 4-Bromofluorobenzene	*50.0*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.3*		µg/l		*50.0*		*113*	*70-130*		
Surrogate: Dibromofluoromethane	*49.2*		µg/l		*50.0*		*98*	*70-130*		
LCS Dup (1320848-BSD1)						Prepared: 29-Aug-13 Analyzed: 30-Aug-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.4**		µg/l		20.0		102	70-130	3	20
Acetone	**12.4**	QR2	µg/l		20.0		62	70-130	22	20
Acrylonitrile	**19.8**		µg/l		20.0		99	70-130	15	20
Benzene	**17.3**		µg/l		20.0		87	70-130	7	20
Bromobenzene	**19.2**		µg/l		20.0		96	70-130	4	20
Bromochloromethane	**18.6**		µg/l		20.0		93	70-130	3	20
Bromodichloromethane	**17.6**		µg/l		20.0		88	70-130	6	20
Bromoform	**14.8**		µg/l		20.0		74	70-130	0	20
Bromomethane	**21.4**		µg/l		20.0		107	70-130	5	20
2-Butanone (MEK)	**13.7**		µg/l		20.0		69	70-130	14	20
n-Butylbenzene	**17.8**		µg/l		20.0		89	70-130	3	20
sec-Butylbenzene	**18.8**		µg/l		20.0		94	70-130	3	20
tert-Butylbenzene	**18.9**		µg/l		20.0		94	70-130	4	20
Carbon disulfide	**17.2**		µg/l		20.0		86	70-130	2	20
Carbon tetrachloride	**17.3**		µg/l		20.0		86	70-130	4	20
Chlorobenzene	**18.8**		µg/l		20.0		94	70-130	1	20
Chloroethane	**17.0**		µg/l		20.0		85	70-130	0.3	20
Chloroform	**19.7**		µg/l		20.0		98	70-130	8	20
Chloromethane	**18.2**		µg/l		20.0		91	70-130	4	20
2-Chlorotoluene	**18.0**		µg/l		20.0		90	70-130	0.8	20
4-Chlorotoluene	**17.9**		µg/l		20.0		89	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320848 - SW846 5030 Water MS										
LCS Dup (1320848-BSD1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
1,2-Dibromo-3-chloropropane	**12.7**	QM9	µg/l		20.0		64	70-130	18	20
Dibromochloromethane	**16.6**		µg/l		20.0		83	70-130	3	20
1,2-Dibromoethane (EDB)	**17.9**		µg/l		20.0		90	70-130	5	20
Dibromomethane	**17.3**		µg/l		20.0		87	70-130	6	20
1,2-Dichlorobenzene	**18.5**		µg/l		20.0		92	70-130	0.5	20
1,3-Dichlorobenzene	**18.6**		µg/l		20.0		93	70-130	6	20
1,4-Dichlorobenzene	**18.4**		µg/l		20.0		92	70-130	1	20
Dichlorodifluoromethane (Freon12)	**19.1**		µg/l		20.0		96	70-130	2	20
1,1-Dichloroethane	**17.4**		µg/l		20.0		87	70-130	7	20
1,2-Dichloroethane	**19.5**		µg/l		20.0		97	70-130	11	20
1,1-Dichloroethene	**18.5**		µg/l		20.0		92	70-130	1	20
cis-1,2-Dichloroethene	**17.9**		µg/l		20.0		90	70-130	2	20
trans-1,2-Dichloroethene	**18.5**		µg/l		20.0		92	70-130	3	20
1,2-Dichloropropane	**17.0**		µg/l		20.0		85	70-130	14	20
1,3-Dichloropropane	**19.0**		µg/l		20.0		95	70-130	11	20
2,2-Dichloropropane	**20.0**		µg/l		20.0		100	70-130	1	20
1,1-Dichloropropene	**18.5**		µg/l		20.0		92	70-130	1	20
cis-1,3-Dichloropropene	**16.8**		µg/l		20.0		84	70-130	9	20
trans-1,3-Dichloropropene	**15.3**		µg/l		20.0		77	70-130	10	20
Ethylbenzene	**18.8**		µg/l		20.0		94	70-130	0.3	20
Hexachlorobutadiene	**18.9**		µg/l		20.0		95	70-130	6	20
2-Hexanone (MBK)	**14.8**		µg/l		20.0		74	70-130	9	20
Isopropylbenzene	**19.2**		µg/l		20.0		96	70-130	3	20
4-Isopropyltoluene	**18.4**		µg/l		20.0		92	70-130	2	20
Methyl tert-butyl ether	**16.3**		µg/l		20.0		82	70-130	9	20
4-Methyl-2-pentanone (MIBK)	**14.9**		µg/l		20.0		75	70-130	16	20
Methylene chloride	**19.0**		µg/l		20.0		95	70-130	12	20
Naphthalene	**14.8**		µg/l		20.0		74	70-130	5	20
n-Propylbenzene	**18.7**		µg/l		20.0		94	70-130	1	20
Styrene	**18.4**		µg/l		20.0		92	70-130	0.9	20
1,1,1,2-Tetrachloroethane	**16.7**		µg/l		20.0		84	70-130	0.4	20
1,1,2,2-Tetrachloroethane	**14.1**		µg/l		20.0		71	70-130	7	20
Tetrachloroethene	**20.5**		µg/l		20.0		103	70-130	3	20
Toluene	**18.4**		µg/l		20.0		92	70-130	0.2	20
1,2,3-Trichlorobenzene	**12.8**	QC2	µg/l		20.0		64	70-130	3	20
1,2,4-Trichlorobenzene	**12.9**	QC2	µg/l		20.0		64	70-130	3	20
1,3,5-Trichlorobenzene	**16.9**		µg/l		20.0		84	70-130	1	20
1,1,1-Trichloroethane	**18.2**		µg/l		20.0		91	70-130	6	20
1,1,2-Trichloroethane	**17.9**		µg/l		20.0		90	70-130	7	20
Trichloroethene	**16.7**		µg/l		20.0		83	70-130	14	20
Trichlorofluoromethane (Freon 11)	**19.5**		µg/l		20.0		98	70-130	2	20
1,2,3-Trichloropropane	**16.3**		µg/l		20.0		81	70-130	17	20
1,2,4-Trimethylbenzene	**18.4**		µg/l		20.0		92	70-130	0.7	20
1,3,5-Trimethylbenzene	**18.7**		µg/l		20.0		94	70-130	2	20
Vinyl chloride	**19.6**		µg/l		20.0		98	70-130	3	20
m,p-Xylene	**38.6**		µg/l		40.0		96	70-130	1	20
o-Xylene	**19.6**		µg/l		20.0		98	70-130	4	20
Tetrahydrofuran	**14.8**		µg/l		20.0		74	70-130	14	20
Ethyl ether	**18.1**		µg/l		20.0		90	70-130	11	20
Tert-amyl methyl ether	**16.1**		µg/l		20.0		81	70-130	7	20
Ethyl tert-butyl ether	**16.4**		µg/l		20.0		82	70-130	8	20
Di-isopropyl ether	**15.9**		µg/l		20.0		80	70-130	9	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320848 - SW846 5030 Water MS										
LCS Dup (1320848-BSD1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Tert-Butanol / butyl alcohol	**159**		µg/l		200		80	70-130	10	20
1,4-Dioxane	**148**		µg/l		200		74	70-130	9	20
trans-1,4-Dichloro-2-butene	**13.8**	QM9	µg/l		20.0		69	70-130	5	20
Ethanol	**357**		µg/l		400		89	70-130	5	20
Surrogate: 4-Bromofluorobenzene	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.1*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*49.6*		µg/l		*50.0*		*99*	*70-130*		
Batch 1320858 - SW846 5035A Soil (high level)										
Blank (1320858-BLK1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	D	µg/kg wet	50.0						
Acetone	< 500	D	µg/kg wet	500						
Acrylonitrile	< 50.0	D	µg/kg wet	50.0						
Benzene	< 50.0	D	µg/kg wet	50.0						
Bromobenzene	< 50.0	D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	D	µg/kg wet	50.0						
Bromoform	< 50.0	D	µg/kg wet	50.0						
Bromomethane	< 100	D	µg/kg wet	100						
2-Butanone (MEK)	< 500	D	µg/kg wet	500						
n-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
Carbon disulfide	< 100	D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	D	µg/kg wet	50.0						
Chloroethane	< 100	D	µg/kg wet	100						
Chloroform	< 50.0	D	µg/kg wet	50.0						
Chloromethane	< 100	D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	D	µg/kg wet	100						
Dibromochloromethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	D	µg/kg wet	50.0						
Dibromomethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320858 - SW846 5035A Soil (high level)										
Blank (1320858-BLK1)					Prepared & Analyzed: 29-Aug-13					
Hexachlorobutadiene	< 50.0	D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 500	D	µg/kg wet	500						
Isopropylbenzene	< 50.0	D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 500	D	µg/kg wet	500						
Methylene chloride	< 100	D	µg/kg wet	100						
Naphthalene	< 50.0	D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	D	µg/kg wet	50.0						
Styrene	< 50.0	D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	D	µg/kg wet	50.0						
Toluene	< 50.0	D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	D	µg/kg wet	50.0						
Trichloroethene	< 50.0	D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	D	µg/kg wet	50.0						
m,p-Xylene	< 100	D	µg/kg wet	100						
o-Xylene	< 50.0	D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	D	µg/kg wet	100						
Ethyl ether	< 50.0	D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	D	µg/kg wet	500						
1,4-Dioxane	< 1000	D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	D	µg/kg wet	250						
Ethanol	< 20000	D	µg/kg wet	20000						
Surrogate: 4-Bromofluorobenzene	*30.0*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*29.5*		µg/kg wet		*30.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.1*		µg/kg wet		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*27.9*		µg/kg wet		*30.0*		*93*	*70-130*		
LCS (1320858-BS1)					Prepared & Analyzed: 29-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.2**	D	µg/kg wet		20.0		91	70-130		
Acetone	**17.0**	D	µg/kg wet		20.0		85	70-130		
Acrylonitrile	**18.0**	D	µg/kg wet		20.0		90	70-130		
Benzene	**17.5**	D	µg/kg wet		20.0		88	70-130		
Bromobenzene	**19.0**	D	µg/kg wet		20.0		95	70-130		
Bromochloromethane	**18.0**	D	µg/kg wet		20.0		90	70-130		
Bromodichloromethane	**16.9**	D	µg/kg wet		20.0		85	70-130		
Bromoform	**16.5**	D	µg/kg wet		20.0		82	70-130		
Bromomethane	**13.4**	D	µg/kg wet		20.0		67	70-130		
2-Butanone (MEK)	**19.3**	D	µg/kg wet		20.0		96	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320858 - SW846 5035A Soil (high level)										
LCS (1320858-BS1)						Prepared & Analyzed: 29-Aug-13				
n-Butylbenzene	**18.3**	D	µg/kg wet		20.0		91	70-130		
sec-Butylbenzene	**19.8**	D	µg/kg wet		20.0		99	70-130		
tert-Butylbenzene	**19.5**	D	µg/kg wet		20.0		98	70-130		
Carbon disulfide	**13.7**	QM9, D	µg/kg wet		20.0		69	70-130		
Carbon tetrachloride	**16.5**	D	µg/kg wet		20.0		83	70-130		
Chlorobenzene	**18.3**	D	µg/kg wet		20.0		92	70-130		
Chloroethane	**15.7**	D	µg/kg wet		20.0		79	70-130		
Chloroform	**15.9**	D	µg/kg wet		20.0		79	70-130		
Chloromethane	**14.4**	D	µg/kg wet		20.0		72	70-130		
2-Chlorotoluene	**18.5**	D	µg/kg wet		20.0		92	70-130		
4-Chlorotoluene	**18.4**	D	µg/kg wet		20.0		92	70-130		
1,2-Dibromo-3-chloropropane	**18.4**	D	µg/kg wet		20.0		92	70-130		
Dibromochloromethane	**16.5**	D	µg/kg wet		20.0		82	70-130		
1,2-Dibromoethane (EDB)	**18.6**	D	µg/kg wet		20.0		93	70-130		
Dibromomethane	**18.7**	D	µg/kg wet		20.0		93	70-130		
1,2-Dichlorobenzene	**19.2**	D	µg/kg wet		20.0		96	70-130		
1,3-Dichlorobenzene	**19.8**	D	µg/kg wet		20.0		99	70-130		
1,4-Dichlorobenzene	**17.6**	D	µg/kg wet		20.0		88	70-130		
Dichlorodifluoromethane (Freon12)	**19.0**	D	µg/kg wet		20.0		95	70-130		
1,1-Dichloroethane	**17.4**	D	µg/kg wet		20.0		87	70-130		
1,2-Dichloroethane	**17.5**	D	µg/kg wet		20.0		88	70-130		
1,1-Dichloroethene	**17.2**	D	µg/kg wet		20.0		86	70-130		
cis-1,2-Dichloroethene	**17.6**	D	µg/kg wet		20.0		88	70-130		
trans-1,2-Dichloroethene	**17.7**	D	µg/kg wet		20.0		88	70-130		
1,2-Dichloropropane	**16.8**	D	µg/kg wet		20.0		84	70-130		
1,3-Dichloropropane	**18.2**	D	µg/kg wet		20.0		91	70-130		
2,2-Dichloropropane	**18.6**	D	µg/kg wet		20.0		93	70-130		
1,1-Dichloropropene	**18.2**	D	µg/kg wet		20.0		91	70-130		
cis-1,3-Dichloropropene	**17.9**	D	µg/kg wet		20.0		90	70-130		
trans-1,3-Dichloropropene	**18.4**	D	µg/kg wet		20.0		92	70-130		
Ethylbenzene	**18.6**	D	µg/kg wet		20.0		93	70-130		
Hexachlorobutadiene	**20.7**	D	µg/kg wet		20.0		103	70-130		
2-Hexanone (MBK)	**19.5**	D	µg/kg wet		20.0		97	70-130		
Isopropylbenzene	**18.9**	D	µg/kg wet		20.0		95	70-130		
4-Isopropyltoluene	**19.0**	D	µg/kg wet		20.0		95	70-130		
Methyl tert-butyl ether	**18.8**	D	µg/kg wet		20.0		94	70-130		
4-Methyl-2-pentanone (MIBK)	**21.4**	D	µg/kg wet		20.0		107	70-130		
Methylene chloride	**15.8**	D	µg/kg wet		20.0		79	70-130		
Naphthalene	**26.0**	D	µg/kg wet		20.0		130	70-130		
n-Propylbenzene	**19.2**	D	µg/kg wet		20.0		96	70-130		
Styrene	**18.1**	D	µg/kg wet		20.0		90	70-130		
1,1,1,2-Tetrachloroethane	**18.0**	D	µg/kg wet		20.0		90	70-130		
1,1,2,2-Tetrachloroethane	**18.7**	D	µg/kg wet		20.0		93	70-130		
Tetrachloroethene	**18.6**	D	µg/kg wet		20.0		93	70-130		
Toluene	**17.6**	D	µg/kg wet		20.0		88	70-130		
1,2,3-Trichlorobenzene	**27.5**	QC2, D	µg/kg wet		20.0		138	70-130		
1,2,4-Trichlorobenzene	**25.0**	D	µg/kg wet		20.0		125	70-130		
1,3,5-Trichlorobenzene	**19.4**	D	µg/kg wet		20.0		97	70-130		
1,1,1-Trichloroethane	**17.7**	D	µg/kg wet		20.0		89	70-130		
1,1,2-Trichloroethane	**18.6**	D	µg/kg wet		20.0		93	70-130		
Trichloroethene	**18.2**	D	µg/kg wet		20.0		91	70-130		
Trichlorofluoromethane (Freon 11)	**18.1**	D	µg/kg wet		20.0		90	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320858 - SW846 5035A Soil (high level)										
LCS (1320858-BS1)						Prepared & Analyzed: 29-Aug-13				
1,2,3-Trichloropropane	**19.0**	D	µg/kg wet		20.0		95	70-130		
1,2,4-Trimethylbenzene	**19.0**	D	µg/kg wet		20.0		95	70-130		
1,3,5-Trimethylbenzene	**18.5**	D	µg/kg wet		20.0		93	70-130		
Vinyl chloride	**15.5**	D	µg/kg wet		20.0		77	70-130		
m,p-Xylene	**36.7**	D	µg/kg wet		40.0		92	70-130		
o-Xylene	**18.2**	D	µg/kg wet		20.0		91	70-130		
Tetrahydrofuran	**19.7**	D	µg/kg wet		20.0		98	70-130		
Ethyl ether	**16.8**	D	µg/kg wet		20.0		84	70-130		
Tert-amyl methyl ether	**18.6**	D	µg/kg wet		20.0		93	70-130		
Ethyl tert-butyl ether	**18.0**	D	µg/kg wet		20.0		90	70-130		
Di-isopropyl ether	**17.2**	D	µg/kg wet		20.0		86	70-130		
Tert-Butanol / butyl alcohol	**200**	D	µg/kg wet		200		100	70-130		
1,4-Dioxane	**220**	D	µg/kg wet		200		110	70-130		
trans-1,4-Dichloro-2-butene	**18.5**	D	µg/kg wet		20.0		93	70-130		
Ethanol	**374**	D	µg/kg wet		400		94	70-130		
Surrogate: 4-Bromofluorobenzene	*30.7*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.0*		µg/kg wet		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*29.4*		µg/kg wet		*30.0*		*98*	*70-130*		
LCS Dup (1320858-BSD1)						Prepared & Analyzed: 29-Aug-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.9**	D	µg/kg wet		20.0		89	70-130	2	30
Acetone	**15.9**	D	µg/kg wet		20.0		79	70-130	7	30
Acrylonitrile	**17.2**	D	µg/kg wet		20.0		86	70-130	4	30
Benzene	**17.3**	D	µg/kg wet		20.0		86	70-130	1	30
Bromobenzene	**18.6**	D	µg/kg wet		20.0		93	70-130	2	30
Bromochloromethane	**17.5**	D	µg/kg wet		20.0		87	70-130	3	30
Bromodichloromethane	**16.9**	D	µg/kg wet		20.0		84	70-130	0.1	30
Bromoform	**16.0**	D	µg/kg wet		20.0		80	70-130	3	30
Bromomethane	**13.2**	D	µg/kg wet		20.0		66	70-130	2	30
2-Butanone (MEK)	**19.4**	D	µg/kg wet		20.0		97	70-130	0.5	30
n-Butylbenzene	**17.8**	D	µg/kg wet		20.0		89	70-130	3	30
sec-Butylbenzene	**19.5**	D	µg/kg wet		20.0		97	70-130	2	30
tert-Butylbenzene	**19.5**	D	µg/kg wet		20.0		97	70-130	0.4	30
Carbon disulfide	**14.2**	D	µg/kg wet		20.0		71	70-130	3	30
Carbon tetrachloride	**16.5**	D	µg/kg wet		20.0		83	70-130	0.06	30
Chlorobenzene	**18.1**	D	µg/kg wet		20.0		90	70-130	1	30
Chloroethane	**16.1**	D	µg/kg wet		20.0		80	70-130	2	30
Chloroform	**15.4**	D	µg/kg wet		20.0		77	70-130	3	30
Chloromethane	**14.3**	D	µg/kg wet		20.0		72	70-130	0.8	30
2-Chlorotoluene	**18.2**	D	µg/kg wet		20.0		91	70-130	2	30
4-Chlorotoluene	**18.2**	D	µg/kg wet		20.0		91	70-130	1	30
1,2-Dibromo-3-chloropropane	**18.3**	D	µg/kg wet		20.0		92	70-130	0.3	30
Dibromochloromethane	**16.4**	D	µg/kg wet		20.0		82	70-130	0.3	30
1,2-Dibromoethane (EDB)	**18.4**	D	µg/kg wet		20.0		92	70-130	1	30
Dibromomethane	**18.3**	D	µg/kg wet		20.0		92	70-130	2	30
1,2-Dichlorobenzene	**18.4**	D	µg/kg wet		20.0		92	70-130	5	30
1,3-Dichlorobenzene	**19.2**	D	µg/kg wet		20.0		96	70-130	3	30
1,4-Dichlorobenzene	**16.9**	D	µg/kg wet		20.0		85	70-130	4	30
Dichlorodifluoromethane (Freon12)	**18.4**	D	µg/kg wet		20.0		92	70-130	3	30
1,1-Dichloroethane	**16.9**	D	µg/kg wet		20.0		84	70-130	3	30
1,2-Dichloroethane	**17.1**	D	µg/kg wet		20.0		86	70-130	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320858 - SW846 5035A Soil (high level)										
LCS Dup (1320858-BSD1)					Prepared & Analyzed: 29-Aug-13					
1,1-Dichloroethene	**17.1**	D	µg/kg wet		20.0		85	70-130	0.9	30
cis-1,2-Dichloroethene	**17.4**	D	µg/kg wet		20.0		87	70-130	1	30
trans-1,2-Dichloroethene	**17.4**	D	µg/kg wet		20.0		87	70-130	1	30
1,2-Dichloropropane	**16.7**	D	µg/kg wet		20.0		84	70-130	0.6	30
1,3-Dichloropropane	**17.8**	D	µg/kg wet		20.0		89	70-130	2	30
2,2-Dichloropropane	**18.1**	D	µg/kg wet		20.0		91	70-130	2	30
1,1-Dichloropropene	**18.0**	D	µg/kg wet		20.0		90	70-130	1	30
cis-1,3-Dichloropropene	**17.9**	D	µg/kg wet		20.0		89	70-130	0.2	30
trans-1,3-Dichloropropene	**17.8**	D	µg/kg wet		20.0		89	70-130	4	30
Ethylbenzene	**18.2**	D	µg/kg wet		20.0		91	70-130	2	30
Hexachlorobutadiene	**19.6**	D	µg/kg wet		20.0		98	70-130	6	30
2-Hexanone (MBK)	**19.4**	D	µg/kg wet		20.0		97	70-130	0.3	30
Isopropylbenzene	**18.6**	D	µg/kg wet		20.0		93	70-130	2	30
4-Isopropyltoluene	**18.4**	D	µg/kg wet		20.0		92	70-130	3	30
Methyl tert-butyl ether	**18.7**	D	µg/kg wet		20.0		94	70-130	0.5	30
4-Methyl-2-pentanone (MIBK)	**20.5**	D	µg/kg wet		20.0		103	70-130	4	30
Methylene chloride	**15.6**	D	µg/kg wet		20.0		78	70-130	1	30
Naphthalene	**27.8**	QM9, D	µg/kg wet		20.0		139	70-130	7	30
n-Propylbenzene	**18.8**	D	µg/kg wet		20.0		94	70-130	3	30
Styrene	**17.6**	D	µg/kg wet		20.0		88	70-130	3	30
1,1,1,2-Tetrachloroethane	**17.7**	D	µg/kg wet		20.0		89	70-130	1	30
1,1,2,2-Tetrachloroethane	**18.3**	D	µg/kg wet		20.0		91	70-130	2	30
Tetrachloroethene	**18.2**	D	µg/kg wet		20.0		91	70-130	2	30
Toluene	**17.3**	D	µg/kg wet		20.0		87	70-130	2	30
1,2,3-Trichlorobenzene	**27.3**	QC2, D	µg/kg wet		20.0		136	70-130	0.8	30
1,2,4-Trichlorobenzene	**24.6**	D	µg/kg wet		20.0		123	70-130	2	30
1,3,5-Trichlorobenzene	**18.7**	D	µg/kg wet		20.0		93	70-130	4	30
1,1,1-Trichloroethane	**17.2**	D	µg/kg wet		20.0		86	70-130	3	30
1,1,2-Trichloroethane	**18.0**	D	µg/kg wet		20.0		90	70-130	3	30
Trichloroethene	**18.1**	D	µg/kg wet		20.0		90	70-130	0.6	30
Trichlorofluoromethane (Freon 11)	**17.7**	D	µg/kg wet		20.0		89	70-130	2	30
1,2,3-Trichloropropane	**18.4**	D	µg/kg wet		20.0		92	70-130	3	30
1,2,4-Trimethylbenzene	**18.7**	D	µg/kg wet		20.0		94	70-130	2	30
1,3,5-Trimethylbenzene	**18.1**	D	µg/kg wet		20.0		91	70-130	2	30
Vinyl chloride	**15.5**	D	µg/kg wet		20.0		78	70-130	0.3	30
m,p-Xylene	**35.7**	D	µg/kg wet		40.0		89	70-130	3	30
o-Xylene	**18.0**	D	µg/kg wet		20.0		90	70-130	1	30
Tetrahydrofuran	**17.7**	D	µg/kg wet		20.0		88	70-130	11	30
Ethyl ether	**16.6**	D	µg/kg wet		20.0		83	70-130	1	30
Tert-amyl methyl ether	**18.2**	D	µg/kg wet		20.0		91	70-130	2	30
Ethyl tert-butyl ether	**17.8**	D	µg/kg wet		20.0		89	70-130	1	30
Di-isopropyl ether	**17.1**	D	µg/kg wet		20.0		86	70-130	0.3	30
Tert-Butanol / butyl alcohol	**202**	D	µg/kg wet		200		101	70-130	0.7	30
1,4-Dioxane	**206**	D	µg/kg wet		200		103	70-130	7	30
trans-1,4-Dichloro-2-butene	**17.9**	D	µg/kg wet		20.0		90	70-130	3	30
Ethanol	**368**	D	µg/kg wet		400		92	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*30.5*		µg/kg wet		*30.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*30.0*		µg/kg wet		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.4*		µg/kg wet		*30.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/kg wet		*30.0*		*98*	*70-130*		

Batch 1320939 - SW846 5035A Soil (low level)

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320939 - SW846 5035A Soil (low level)										
Blank (1320939-BLK1)					Prepared & Analyzed: 30-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0		µg/kg wet	5.0						
Acetone	< 50.0		µg/kg wet	50.0						
Acrylonitrile	< 5.0		µg/kg wet	5.0						
Benzene	< 5.0		µg/kg wet	5.0						
Bromobenzene	< 5.0		µg/kg wet	5.0						
Bromochloromethane	< 5.0		µg/kg wet	5.0						
Bromodichloromethane	< 5.0		µg/kg wet	5.0						
Bromoform	< 5.0		µg/kg wet	5.0						
Bromomethane	< 10.0		µg/kg wet	10.0						
2-Butanone (MEK)	< 50.0		µg/kg wet	50.0						
n-Butylbenzene	< 5.0		µg/kg wet	5.0						
sec-Butylbenzene	< 5.0		µg/kg wet	5.0						
tert-Butylbenzene	< 5.0		µg/kg wet	5.0						
Carbon disulfide	< 10.0		µg/kg wet	10.0						
Carbon tetrachloride	< 5.0		µg/kg wet	5.0						
Chlorobenzene	< 5.0		µg/kg wet	5.0						
Chloroethane	< 10.0		µg/kg wet	10.0						
Chloroform	< 5.0		µg/kg wet	5.0						
Chloromethane	< 10.0		µg/kg wet	10.0						
2-Chlorotoluene	< 5.0		µg/kg wet	5.0						
4-Chlorotoluene	< 5.0		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	< 10.0		µg/kg wet	10.0						
Dibromochloromethane	< 5.0		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	< 5.0		µg/kg wet	5.0						
Dibromomethane	< 5.0		µg/kg wet	5.0						
1,2-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
1,4-Dichlorobenzene	< 5.0		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	< 10.0		µg/kg wet	10.0						
1,1-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,2-Dichloroethane	< 5.0		µg/kg wet	5.0						
1,1-Dichloroethene	< 5.0		µg/kg wet	5.0						
cis-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
trans-1,2-Dichloroethene	< 5.0		µg/kg wet	5.0						
1,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,3-Dichloropropane	< 5.0		µg/kg wet	5.0						
2,2-Dichloropropane	< 5.0		µg/kg wet	5.0						
1,1-Dichloropropene	< 5.0		µg/kg wet	5.0						
cis-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
trans-1,3-Dichloropropene	< 5.0		µg/kg wet	5.0						
Ethylbenzene	< 5.0		µg/kg wet	5.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 50.0		µg/kg wet	50.0						
Isopropylbenzene	< 5.0		µg/kg wet	5.0						
4-Isopropyltoluene	< 5.0		µg/kg wet	5.0						
Methyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	< 50.0		µg/kg wet	50.0						
Methylene chloride	< 10.0		µg/kg wet	10.0						
Naphthalene	< 5.0		µg/kg wet	5.0						
n-Propylbenzene	< 5.0		µg/kg wet	5.0						
Styrene	< 5.0		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320939 - SW846 5035A Soil (low level)										
Blank (1320939-BLK1)					Prepared & Analyzed: 30-Aug-13					
1,1,2,2-Tetrachloroethane	< 5.0		µg/kg wet	5.0						
Tetrachloroethene	< 5.0		µg/kg wet	5.0						
Toluene	< 5.0		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	< 5.0		µg/kg wet	5.0						
1,1,1-Trichloroethane	< 5.0		µg/kg wet	5.0						
1,1,2-Trichloroethane	< 5.0		µg/kg wet	5.0						
Trichloroethene	< 5.0		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	< 5.0		µg/kg wet	5.0						
1,2,3-Trichloropropane	< 5.0		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	< 5.0		µg/kg wet	5.0						
Vinyl chloride	< 5.0		µg/kg wet	5.0						
m,p-Xylene	< 10.0		µg/kg wet	10.0						
o-Xylene	< 5.0		µg/kg wet	5.0						
Tetrahydrofuran	< 10.0		µg/kg wet	10.0						
Ethyl ether	< 5.0		µg/kg wet	5.0						
Tert-amyl methyl ether	< 5.0		µg/kg wet	5.0						
Ethyl tert-butyl ether	< 5.0		µg/kg wet	5.0						
Di-isopropyl ether	< 5.0		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	< 50.0		µg/kg wet	50.0						
1,4-Dioxane	< 100		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0		µg/kg wet	25.0						
Ethanol	< 2000		µg/kg wet	2000						
Surrogate: 4-Bromofluorobenzene	*46.3*		µg/kg wet		*50.0*		*93*	*70-130*		
Surrogate: Toluene-d8	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*60.9*		µg/kg wet		*50.0*		*122*	*70-130*		
Surrogate: Dibromofluoromethane	*53.7*		µg/kg wet		*50.0*		*107*	*70-130*		
LCS (1320939-BS1)					Prepared & Analyzed: 30-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.3**		µg/kg wet		20.0		91	70-130		
Acetone	**19.2**		µg/kg wet		20.0		96	70-130		
Acrylonitrile	**21.6**		µg/kg wet		20.0		108	70-130		
Benzene	**21.3**		µg/kg wet		20.0		106	70-130		
Bromobenzene	**21.0**		µg/kg wet		20.0		105	70-130		
Bromochloromethane	**21.1**		µg/kg wet		20.0		105	70-130		
Bromodichloromethane	**20.4**		µg/kg wet		20.0		102	70-130		
Bromoform	**19.6**		µg/kg wet		20.0		98	70-130		
Bromomethane	**18.9**		µg/kg wet		20.0		94	70-130		
2-Butanone (MEK)	**14.3**		µg/kg wet		20.0		71	70-130		
n-Butylbenzene	**19.8**		µg/kg wet		20.0		99	70-130		
sec-Butylbenzene	**21.2**		µg/kg wet		20.0		106	70-130		
tert-Butylbenzene	**21.5**		µg/kg wet		20.0		108	70-130		
Carbon disulfide	**17.5**		µg/kg wet		20.0		87	70-130		
Carbon tetrachloride	**19.8**		µg/kg wet		20.0		99	70-130		
Chlorobenzene	**20.6**		µg/kg wet		20.0		103	70-130		
Chloroethane	**20.2**		µg/kg wet		20.0		101	70-130		
Chloroform	**19.9**		µg/kg wet		20.0		99	70-130		
Chloromethane	**19.4**		µg/kg wet		20.0		97	70-130		
2-Chlorotoluene	**21.0**		µg/kg wet		20.0		105	70-130		
4-Chlorotoluene	**22.7**		µg/kg wet		20.0		113	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320939 - SW846 5035A Soil (low level)										
LCS (1320939-BS1)					Prepared & Analyzed: 30-Aug-13					
1,2-Dibromo-3-chloropropane	**20.0**		µg/kg wet		20.0		100	70-130		
Dibromochloromethane	**21.0**		µg/kg wet		20.0		105	70-130		
1,2-Dibromoethane (EDB)	**21.0**		µg/kg wet		20.0		105	70-130		
Dibromomethane	**20.9**		µg/kg wet		20.0		104	70-130		
1,2-Dichlorobenzene	**20.2**		µg/kg wet		20.0		101	70-130		
1,3-Dichlorobenzene	**21.0**		µg/kg wet		20.0		105	70-130		
1,4-Dichlorobenzene	**20.0**		µg/kg wet		20.0		100	70-130		
Dichlorodifluoromethane (Freon12)	**17.1**		µg/kg wet		20.0		86	70-130		
1,1-Dichloroethane	**20.6**		µg/kg wet		20.0		103	70-130		
1,2-Dichloroethane	**20.5**		µg/kg wet		20.0		102	70-130		
1,1-Dichloroethene	**19.6**		µg/kg wet		20.0		98	70-130		
cis-1,2-Dichloroethene	**22.2**		µg/kg wet		20.0		111	70-130		
trans-1,2-Dichloroethene	**20.8**		µg/kg wet		20.0		104	70-130		
1,2-Dichloropropane	**21.5**		µg/kg wet		20.0		107	70-130		
1,3-Dichloropropane	**20.8**		µg/kg wet		20.0		104	70-130		
2,2-Dichloropropane	**20.8**		µg/kg wet		20.0		104	70-130		
1,1-Dichloropropene	**19.8**		µg/kg wet		20.0		99	70-130		
cis-1,3-Dichloropropene	**20.1**		µg/kg wet		20.0		100	70-130		
trans-1,3-Dichloropropene	**19.5**		µg/kg wet		20.0		97	70-130		
Ethylbenzene	**21.0**		µg/kg wet		20.0		105	70-130		
Hexachlorobutadiene	**18.7**		µg/kg wet		20.0		94	70-130		
2-Hexanone (MBK)	**19.4**		µg/kg wet		20.0		97	70-130		
Isopropylbenzene	**20.9**		µg/kg wet		20.0		105	70-130		
4-Isopropyltoluene	**20.6**		µg/kg wet		20.0		103	70-130		
Methyl tert-butyl ether	**23.6**		µg/kg wet		20.0		118	70-130		
4-Methyl-2-pentanone (MIBK)	**18.7**		µg/kg wet		20.0		94	70-130		
Methylene chloride	**19.4**		µg/kg wet		20.0		97	70-130		
Naphthalene	**17.2**		µg/kg wet		20.0		86	70-130		
n-Propylbenzene	**21.3**		µg/kg wet		20.0		106	70-130		
Styrene	**21.5**		µg/kg wet		20.0		107	70-130		
1,1,1,2-Tetrachloroethane	**20.0**		µg/kg wet		20.0		100	70-130		
1,1,2,2-Tetrachloroethane	**21.3**		µg/kg wet		20.0		106	70-130		
Tetrachloroethene	**20.2**		µg/kg wet		20.0		101	70-130		
Toluene	**20.4**		µg/kg wet		20.0		102	70-130		
1,2,3-Trichlorobenzene	**19.3**		µg/kg wet		20.0		97	70-130		
1,2,4-Trichlorobenzene	**18.8**		µg/kg wet		20.0		94	70-130		
1,3,5-Trichlorobenzene	**20.6**		µg/kg wet		20.0		103	70-130		
1,1,1-Trichloroethane	**20.5**		µg/kg wet		20.0		102	70-130		
1,1,2-Trichloroethane	**20.5**		µg/kg wet		20.0		102	70-130		
Trichloroethene	**20.2**		µg/kg wet		20.0		101	70-130		
Trichlorofluoromethane (Freon 11)	**19.0**		µg/kg wet		20.0		95	70-130		
1,2,3-Trichloropropane	**20.1**		µg/kg wet		20.0		101	70-130		
1,2,4-Trimethylbenzene	**21.2**		µg/kg wet		20.0		106	70-130		
1,3,5-Trimethylbenzene	**22.2**		µg/kg wet		20.0		111	70-130		
Vinyl chloride	**19.9**		µg/kg wet		20.0		99	70-130		
m,p-Xylene	**43.3**		µg/kg wet		40.0		108	70-130		
o-Xylene	**22.1**		µg/kg wet		20.0		110	70-130		
Tetrahydrofuran	**18.8**		µg/kg wet		20.0		94	70-130		
Ethyl ether	**21.1**		µg/kg wet		20.0		105	70-130		
Tert-amyl methyl ether	**20.4**		µg/kg wet		20.0		102	70-130		
Ethyl tert-butyl ether	**24.1**		µg/kg wet		20.0		121	70-130		
Di-isopropyl ether	**23.2**		µg/kg wet		20.0		116	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320939 - SW846 5035A Soil (low level)										
LCS (1320939-BS1)						Prepared & Analyzed: 30-Aug-13				
Tert-Butanol / butyl alcohol	**219**		µg/kg wet		200		109	70-130		
1,4-Dioxane	**177**		µg/kg wet		200		88	70-130		
trans-1,4-Dichloro-2-butene	**18.9**		µg/kg wet		20.0		94	70-130		
Ethanol	**352**		µg/kg wet		400		88	70-130		
Surrogate: 4-Bromofluorobenzene	*52.4*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*50.5*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.2*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*49.5*		µg/kg wet		*50.0*		*99*	*70-130*		
LCS Dup (1320939-BSD1)						Prepared & Analyzed: 30-Aug-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.8**		µg/kg wet		20.0		94	70-130	3	30
Acetone	**21.8**		µg/kg wet		20.0		109	70-130	13	30
Acrylonitrile	**23.2**		µg/kg wet		20.0		116	70-130	7	30
Benzene	**21.2**		µg/kg wet		20.0		106	70-130	0.4	30
Bromobenzene	**20.9**		µg/kg wet		20.0		105	70-130	0.2	30
Bromochloromethane	**20.8**		µg/kg wet		20.0		104	70-130	1	30
Bromodichloromethane	**20.9**		µg/kg wet		20.0		105	70-130	2	30
Bromoform	**20.1**		µg/kg wet		20.0		100	70-130	2	30
Bromomethane	**19.6**		µg/kg wet		20.0		98	70-130	4	30
2-Butanone (MEK)	**17.0**		µg/kg wet		20.0		85	70-130	18	30
n-Butylbenzene	**19.7**		µg/kg wet		20.0		99	70-130	0.5	30
sec-Butylbenzene	**21.2**		µg/kg wet		20.0		106	70-130	0.05	30
tert-Butylbenzene	**22.0**		µg/kg wet		20.0		110	70-130	2	30
Carbon disulfide	**17.7**		µg/kg wet		20.0		88	70-130	1	30
Carbon tetrachloride	**20.0**		µg/kg wet		20.0		100	70-130	0.9	30
Chlorobenzene	**20.7**		µg/kg wet		20.0		103	70-130	0.5	30
Chloroethane	**20.2**		µg/kg wet		20.0		101	70-130	0.1	30
Chloroform	**19.8**		µg/kg wet		20.0		99	70-130	0.4	30
Chloromethane	**19.6**		µg/kg wet		20.0		98	70-130	0.9	30
2-Chlorotoluene	**21.4**		µg/kg wet		20.0		107	70-130	2	30
4-Chlorotoluene	**22.5**		µg/kg wet		20.0		112	70-130	0.8	30
1,2-Dibromo-3-chloropropane	**19.6**		µg/kg wet		20.0		98	70-130	2	30
Dibromochloromethane	**21.4**		µg/kg wet		20.0		107	70-130	2	30
1,2-Dibromoethane (EDB)	**21.7**		µg/kg wet		20.0		108	70-130	3	30
Dibromomethane	**21.1**		µg/kg wet		20.0		105	70-130	0.9	30
1,2-Dichlorobenzene	**20.3**		µg/kg wet		20.0		101	70-130	0.2	30
1,3-Dichlorobenzene	**21.6**		µg/kg wet		20.0		108	70-130	3	30
1,4-Dichlorobenzene	**20.2**		µg/kg wet		20.0		101	70-130	0.8	30
Dichlorodifluoromethane (Freon12)	**17.2**		µg/kg wet		20.0		86	70-130	0.5	30
1,1-Dichloroethane	**20.8**		µg/kg wet		20.0		104	70-130	1	30
1,2-Dichloroethane	**20.7**		µg/kg wet		20.0		104	70-130	1	30
1,1-Dichloroethene	**19.7**		µg/kg wet		20.0		98	70-130	0.4	30
cis-1,2-Dichloroethene	**22.3**		µg/kg wet		20.0		111	70-130	0.4	30
trans-1,2-Dichloroethene	**20.7**		µg/kg wet		20.0		103	70-130	0.4	30
1,2-Dichloropropane	**21.4**		µg/kg wet		20.0		107	70-130	0.5	30
1,3-Dichloropropane	**21.0**		µg/kg wet		20.0		105	70-130	1	30
2,2-Dichloropropane	**20.5**		µg/kg wet		20.0		103	70-130	1	30
1,1-Dichloropropene	**19.8**		µg/kg wet		20.0		99	70-130	0.3	30
cis-1,3-Dichloropropene	**20.3**		µg/kg wet		20.0		102	70-130	1	30
trans-1,3-Dichloropropene	**19.4**		µg/kg wet		20.0		97	70-130	0.6	30
Ethylbenzene	**21.4**		µg/kg wet		20.0		107	70-130	2	30
Hexachlorobutadiene	**18.7**		µg/kg wet		20.0		93	70-130	0.3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320939 - SW846 5035A Soil (low level)										
LCS Dup (1320939-BSD1)					Prepared & Analyzed: 30-Aug-13					
2-Hexanone (MBK)	**18.5**		µg/kg wet		20.0		92	70-130	5	30
Isopropylbenzene	**21.0**		µg/kg wet		20.0		105	70-130	0.4	30
4-Isopropyltoluene	**20.6**		µg/kg wet		20.0		103	70-130	0.2	30
Methyl tert-butyl ether	**23.8**		µg/kg wet		20.0		119	70-130	1	30
4-Methyl-2-pentanone (MIBK)	**20.7**		µg/kg wet		20.0		104	70-130	10	30
Methylene chloride	**20.1**		µg/kg wet		20.0		100	70-130	4	30
Naphthalene	**17.3**		µg/kg wet		20.0		87	70-130	0.5	30
n-Propylbenzene	**21.6**		µg/kg wet		20.0		108	70-130	1	30
Styrene	**22.1**		µg/kg wet		20.0		110	70-130	3	30
1,1,1,2-Tetrachloroethane	**20.0**		µg/kg wet		20.0		100	70-130	0.3	30
1,1,2,2-Tetrachloroethane	**21.6**		µg/kg wet		20.0		108	70-130	2	30
Tetrachloroethene	**20.2**		µg/kg wet		20.0		101	70-130	0.2	30
Toluene	**20.5**		µg/kg wet		20.0		102	70-130	0.3	30
1,2,3-Trichlorobenzene	**19.2**		µg/kg wet		20.0		96	70-130	0.3	30
1,2,4-Trichlorobenzene	**19.0**		µg/kg wet		20.0		95	70-130	0.8	30
1,3,5-Trichlorobenzene	**20.3**		µg/kg wet		20.0		102	70-130	1	30
1,1,1-Trichloroethane	**21.0**		µg/kg wet		20.0		105	70-130	2	30
1,1,2-Trichloroethane	**21.1**		µg/kg wet		20.0		105	70-130	3	30
Trichloroethene	**20.6**		µg/kg wet		20.0		103	70-130	2	30
Trichlorofluoromethane (Freon 11)	**19.4**		µg/kg wet		20.0		97	70-130	2	30
1,2,3-Trichloropropane	**20.7**		µg/kg wet		20.0		103	70-130	3	30
1,2,4-Trimethylbenzene	**21.6**		µg/kg wet		20.0		108	70-130	2	30
1,3,5-Trimethylbenzene	**22.0**		µg/kg wet		20.0		110	70-130	1	30
Vinyl chloride	**20.3**		µg/kg wet		20.0		101	70-130	2	30
m,p-Xylene	**43.6**		µg/kg wet		40.0		109	70-130	0.8	30
o-Xylene	**22.6**		µg/kg wet		20.0		113	70-130	2	30
Tetrahydrofuran	**19.0**		µg/kg wet		20.0		95	70-130	1	30
Ethyl ether	**21.3**		µg/kg wet		20.0		107	70-130	1	30
Tert-amyl methyl ether	**20.0**		µg/kg wet		20.0		100	70-130	2	30
Ethyl tert-butyl ether	**24.2**		µg/kg wet		20.0		121	70-130	0.3	30
Di-isopropyl ether	**23.0**		µg/kg wet		20.0		115	70-130	0.6	30
Tert-Butanol / butyl alcohol	**231**		µg/kg wet		200		115	70-130	5	30
1,4-Dioxane	**193**		µg/kg wet		200		97	70-130	9	30
trans-1,4-Dichloro-2-butene	**19.4**		µg/kg wet		20.0		97	70-130	3	30
Ethanol	**357**		µg/kg wet		400		89	70-130	1	30
Surrogate: 4-Bromofluorobenzene	*52.9*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*51.0*		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.2*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*50.1*		µg/kg wet		*50.0*		*100*	*70-130*		
Batch 1320952 - SW846 5035A Soil (high level)										
Blank (1320952-BLK1)					Prepared & Analyzed: 30-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	D	µg/kg wet	50.0						
Acetone	< 500	D	µg/kg wet	500						
Acrylonitrile	< 50.0	D	µg/kg wet	50.0						
Benzene	< 50.0	D	µg/kg wet	50.0						
Bromobenzene	< 50.0	D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	D	µg/kg wet	50.0						
Bromoform	< 50.0	D	µg/kg wet	50.0						
Bromomethane	< 100	D	µg/kg wet	100						
2-Butanone (MEK)	< 500	D	µg/kg wet	500						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320952 - SW846 5035A Soil (high level)										
Blank (1320952-BLK1)					Prepared & Analyzed: 30-Aug-13					
n-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	D	µg/kg wet	50.0						
Carbon disulfide	< 100	D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	D	µg/kg wet	50.0						
Chloroethane	< 100	D	µg/kg wet	100						
Chloroform	< 50.0	D	µg/kg wet	50.0						
Chloromethane	< 100	D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	D	µg/kg wet	100						
Dibromochloromethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	D	µg/kg wet	50.0						
Dibromomethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 500	D	µg/kg wet	500						
Isopropylbenzene	< 50.0	D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 500	D	µg/kg wet	500						
Methylene chloride	< 100	D	µg/kg wet	100						
Naphthalene	< 50.0	D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	D	µg/kg wet	50.0						
Styrene	< 50.0	D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	D	µg/kg wet	50.0						
Toluene	< 50.0	D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	D	µg/kg wet	50.0						
Trichloroethene	< 50.0	D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320952 - SW846 5035A Soil (high level)										
Blank (1320952-BLK1)					Prepared & Analyzed: 30-Aug-13					
1,2,3-Trichloropropane	< 50.0	D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	D	µg/kg wet	50.0						
m,p-Xylene	< 100	D	µg/kg wet	100						
o-Xylene	< 50.0	D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	D	µg/kg wet	100						
Ethyl ether	< 50.0	D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	D	µg/kg wet	500						
1,4-Dioxane	< 1000	D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	D	µg/kg wet	250						
Ethanol	< 20000	D	µg/kg wet	20000						
Surrogate: 4-Bromofluorobenzene	*28.6*		µg/kg wet		*30.0*		*95*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/kg wet		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.2*		µg/kg wet		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*28.2*		µg/kg wet		*30.0*		*94*	*70-130*		
LCS (1320952-BS1)					Prepared & Analyzed: 30-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**13.9**	QM9, D	µg/kg wet		20.0		69	70-130		
Acetone	**15.7**	D	µg/kg wet		20.0		78	70-130		
Acrylonitrile	**18.3**	D	µg/kg wet		20.0		92	70-130		
Benzene	**18.0**	D	µg/kg wet		20.0		90	70-130		
Bromobenzene	**19.5**	D	µg/kg wet		20.0		98	70-130		
Bromochloromethane	**18.6**	D	µg/kg wet		20.0		93	70-130		
Bromodichloromethane	**17.7**	D	µg/kg wet		20.0		89	70-130		
Bromoform	**16.8**	D	µg/kg wet		20.0		84	70-130		
Bromomethane	**15.1**	D	µg/kg wet		20.0		75	70-130		
2-Butanone (MEK)	**19.9**	D	µg/kg wet		20.0		100	70-130		
n-Butylbenzene	**17.6**	D	µg/kg wet		20.0		88	70-130		
sec-Butylbenzene	**19.6**	D	µg/kg wet		20.0		98	70-130		
tert-Butylbenzene	**19.3**	D	µg/kg wet		20.0		97	70-130		
Carbon disulfide	**13.1**	QC2, D	µg/kg wet		20.0		66	70-130		
Carbon tetrachloride	**16.3**	D	µg/kg wet		20.0		81	70-130		
Chlorobenzene	**19.1**	D	µg/kg wet		20.0		96	70-130		
Chloroethane	**16.1**	D	µg/kg wet		20.0		80	70-130		
Chloroform	**16.2**	D	µg/kg wet		20.0		81	70-130		
Chloromethane	**14.8**	D	µg/kg wet		20.0		74	70-130		
2-Chlorotoluene	**19.0**	D	µg/kg wet		20.0		95	70-130		
4-Chlorotoluene	**19.2**	D	µg/kg wet		20.0		96	70-130		
1,2-Dibromo-3-chloropropane	**18.2**	D	µg/kg wet		20.0		91	70-130		
Dibromochloromethane	**17.5**	D	µg/kg wet		20.0		87	70-130		
1,2-Dibromoethane (EDB)	**18.7**	D	µg/kg wet		20.0		94	70-130		
Dibromomethane	**18.4**	D	µg/kg wet		20.0		92	70-130		
1,2-Dichlorobenzene	**19.5**	D	µg/kg wet		20.0		98	70-130		
1,3-Dichlorobenzene	**20.6**	D	µg/kg wet		20.0		103	70-130		
1,4-Dichlorobenzene	**18.2**	D	µg/kg wet		20.0		91	70-130		
Dichlorodifluoromethane (Freon12)	**15.9**	D	µg/kg wet		20.0		80	70-130		
1,1-Dichloroethane	**17.6**	D	µg/kg wet		20.0		88	70-130		
1,2-Dichloroethane	**17.8**	D	µg/kg wet		20.0		89	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320952 - SW846 5035A Soil (high level)										
LCS (1320952-BS1)					Prepared & Analyzed: 30-Aug-13					
1,1-Dichloroethene	**16.8**	D	µg/kg wet		20.0		84	70-130		
cis-1,2-Dichloroethene	**18.4**	D	µg/kg wet		20.0		92	70-130		
trans-1,2-Dichloroethene	**17.9**	D	µg/kg wet		20.0		89	70-130		
1,2-Dichloropropane	**17.6**	D	µg/kg wet		20.0		88	70-130		
1,3-Dichloropropane	**18.6**	D	µg/kg wet		20.0		93	70-130		
2,2-Dichloropropane	**17.3**	D	µg/kg wet		20.0		86	70-130		
1,1-Dichloropropene	**17.5**	D	µg/kg wet		20.0		88	70-130		
cis-1,3-Dichloropropene	**18.1**	D	µg/kg wet		20.0		91	70-130		
trans-1,3-Dichloropropene	**18.3**	D	µg/kg wet		20.0		91	70-130		
Ethylbenzene	**18.8**	D	µg/kg wet		20.0		94	70-130		
Hexachlorobutadiene	**18.2**	D	µg/kg wet		20.0		91	70-130		
2-Hexanone (MBK)	**19.2**	D	µg/kg wet		20.0		96	70-130		
Isopropylbenzene	**18.9**	D	µg/kg wet		20.0		95	70-130		
4-Isopropyltoluene	**18.9**	D	µg/kg wet		20.0		94	70-130		
Methyl tert-butyl ether	**18.6**	D	µg/kg wet		20.0		93	70-130		
4-Methyl-2-pentanone (MIBK)	**19.4**	D	µg/kg wet		20.0		97	70-130		
Methylene chloride	**13.9**	D	µg/kg wet		20.0		70	70-130		
Naphthalene	**19.0**	D	µg/kg wet		20.0		95	70-130		
n-Propylbenzene	**18.9**	D	µg/kg wet		20.0		95	70-130		
Styrene	**19.4**	D	µg/kg wet		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	**18.2**	D	µg/kg wet		20.0		91	70-130		
1,1,2,2-Tetrachloroethane	**18.5**	D	µg/kg wet		20.0		92	70-130		
Tetrachloroethene	**18.0**	D	µg/kg wet		20.0		90	70-130		
Toluene	**18.2**	D	µg/kg wet		20.0		91	70-130		
1,2,3-Trichlorobenzene	**21.2**	D	µg/kg wet		20.0		106	70-130		
1,2,4-Trichlorobenzene	**21.8**	D	µg/kg wet		20.0		109	70-130		
1,3,5-Trichlorobenzene	**18.6**	D	µg/kg wet		20.0		93	70-130		
1,1,1-Trichloroethane	**17.0**	D	µg/kg wet		20.0		85	70-130		
1,1,2-Trichloroethane	**18.7**	D	µg/kg wet		20.0		94	70-130		
Trichloroethene	**18.6**	D	µg/kg wet		20.0		93	70-130		
Trichlorofluoromethane (Freon 11)	**16.8**	D	µg/kg wet		20.0		84	70-130		
1,2,3-Trichloropropane	**19.3**	D	µg/kg wet		20.0		97	70-130		
1,2,4-Trimethylbenzene	**19.8**	D	µg/kg wet		20.0		99	70-130		
1,3,5-Trimethylbenzene	**19.4**	D	µg/kg wet		20.0		97	70-130		
Vinyl chloride	**15.1**	D	µg/kg wet		20.0		76	70-130		
m,p-Xylene	**37.7**	D	µg/kg wet		40.0		94	70-130		
o-Xylene	**19.0**	D	µg/kg wet		20.0		95	70-130		
Tetrahydrofuran	**18.8**	D	µg/kg wet		20.0		94	70-130		
Ethyl ether	**17.4**	D	µg/kg wet		20.0		87	70-130		
Tert-amyl methyl ether	**18.8**	D	µg/kg wet		20.0		94	70-130		
Ethyl tert-butyl ether	**18.2**	D	µg/kg wet		20.0		91	70-130		
Di-isopropyl ether	**17.6**	D	µg/kg wet		20.0		88	70-130		
Tert-Butanol / butyl alcohol	**185**	D	µg/kg wet		200		92	70-130		
1,4-Dioxane	**196**	D	µg/kg wet		200		98	70-130		
trans-1,4-Dichloro-2-butene	**18.1**	D	µg/kg wet		20.0		90	70-130		
Ethanol	**378**	D	µg/kg wet		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*31.2*		µg/kg wet		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*29.8*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.0*		µg/kg wet		*30.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*28.8*		µg/kg wet		*30.0*		*96*	*70-130*		
LCS Dup (1320952-BSD1)					Prepared & Analyzed: 30-Aug-13					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320952 - SW846 5035A Soil (high level)										
LCS Dup (1320952-BSD1)					Prepared & Analyzed: 30-Aug-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**14.1**	D	µg/kg wet		20.0		70	70-130	2	30
Acetone	**18.3**	D	µg/kg wet		20.0		92	70-130	16	30
Acrylonitrile	**18.6**	D	µg/kg wet		20.0		93	70-130	2	30
Benzene	**18.7**	D	µg/kg wet		20.0		94	70-130	4	30
Bromobenzene	**20.0**	D	µg/kg wet		20.0		100	70-130	2	30
Bromochloromethane	**18.9**	D	µg/kg wet		20.0		95	70-130	2	30
Bromodichloromethane	**18.6**	D	µg/kg wet		20.0		93	70-130	5	30
Bromoform	**18.4**	D	µg/kg wet		20.0		92	70-130	9	30
Bromomethane	**16.0**	D	µg/kg wet		20.0		80	70-130	6	30
2-Butanone (MEK)	**19.1**	D	µg/kg wet		20.0		96	70-130	4	30
n-Butylbenzene	**18.3**	D	µg/kg wet		20.0		92	70-130	4	30
sec-Butylbenzene	**20.0**	D	µg/kg wet		20.0		100	70-130	2	30
tert-Butylbenzene	**20.1**	D	µg/kg wet		20.0		100	70-130	4	30
Carbon disulfide	**13.7**	QC2, D	µg/kg wet		20.0		68	70-130	4	30
Carbon tetrachloride	**16.6**	D	µg/kg wet		20.0		83	70-130	2	30
Chlorobenzene	**19.5**	D	µg/kg wet		20.0		97	70-130	2	30
Chloroethane	**17.1**	D	µg/kg wet		20.0		85	70-130	6	30
Chloroform	**17.0**	D	µg/kg wet		20.0		85	70-130	5	30
Chloromethane	**15.1**	D	µg/kg wet		20.0		76	70-130	2	30
2-Chlorotoluene	**19.8**	D	µg/kg wet		20.0		99	70-130	4	30
4-Chlorotoluene	**19.7**	D	µg/kg wet		20.0		99	70-130	3	30
1,2-Dibromo-3-chloropropane	**19.6**	D	µg/kg wet		20.0		98	70-130	8	30
Dibromochloromethane	**18.2**	D	µg/kg wet		20.0		91	70-130	4	30
1,2-Dibromoethane (EDB)	**19.7**	D	µg/kg wet		20.0		98	70-130	5	30
Dibromomethane	**19.2**	D	µg/kg wet		20.0		96	70-130	4	30
1,2-Dichlorobenzene	**19.8**	D	µg/kg wet		20.0		99	70-130	2	30
1,3-Dichlorobenzene	**20.9**	D	µg/kg wet		20.0		105	70-130	2	30
1,4-Dichlorobenzene	**18.5**	D	µg/kg wet		20.0		93	70-130	2	30
Dichlorodifluoromethane (Freon12)	**16.2**	D	µg/kg wet		20.0		81	70-130	2	30
1,1-Dichloroethane	**18.2**	D	µg/kg wet		20.0		91	70-130	4	30
1,2-Dichloroethane	**18.4**	D	µg/kg wet		20.0		92	70-130	3	30
1,1-Dichloroethene	**17.3**	D	µg/kg wet		20.0		87	70-130	3	30
cis-1,2-Dichloroethene	**18.8**	D	µg/kg wet		20.0		94	70-130	2	30
trans-1,2-Dichloroethene	**17.9**	D	µg/kg wet		20.0		90	70-130	0.4	30
1,2-Dichloropropane	**18.3**	D	µg/kg wet		20.0		92	70-130	4	30
1,3-Dichloropropane	**19.2**	D	µg/kg wet		20.0		96	70-130	3	30
2,2-Dichloropropane	**17.5**	D	µg/kg wet		20.0		88	70-130	1	30
1,1-Dichloropropene	**18.1**	D	µg/kg wet		20.0		91	70-130	3	30
cis-1,3-Dichloropropene	**19.1**	D	µg/kg wet		20.0		95	70-130	5	30
trans-1,3-Dichloropropene	**18.9**	D	µg/kg wet		20.0		94	70-130	3	30
Ethylbenzene	**19.4**	D	µg/kg wet		20.0		97	70-130	3	30
Hexachlorobutadiene	**19.2**	D	µg/kg wet		20.0		96	70-130	6	30
2-Hexanone (MBK)	**19.4**	D	µg/kg wet		20.0		97	70-130	1	30
Isopropylbenzene	**19.4**	D	µg/kg wet		20.0		97	70-130	2	30
4-Isopropyltoluene	**19.5**	D	µg/kg wet		20.0		98	70-130	3	30
Methyl tert-butyl ether	**19.2**	D	µg/kg wet		20.0		96	70-130	3	30
4-Methyl-2-pentanone (MIBK)	**21.4**	D	µg/kg wet		20.0		107	70-130	10	30
Methylene chloride	**14.5**	D	µg/kg wet		20.0		72	70-130	4	30
Naphthalene	**20.4**	D	µg/kg wet		20.0		102	70-130	7	30
n-Propylbenzene	**19.4**	D	µg/kg wet		20.0		97	70-130	3	30
Styrene	**19.4**	D	µg/kg wet		20.0		97	70-130	0	30
1,1,1,2-Tetrachloroethane	**19.0**	D	µg/kg wet		20.0		95	70-130	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320952 - SW846 5035A Soil (high level)										
LCS Dup (1320952-BSD1)					Prepared & Analyzed: 30-Aug-13					
1,1,2,2-Tetrachloroethane	**19.0**	D	µg/kg wet		20.0		95	70-130	3	30
Tetrachloroethene	**18.4**	D	µg/kg wet		20.0		92	70-130	2	30
Toluene	**18.4**	D	µg/kg wet		20.0		92	70-130	1	30
1,2,3-Trichlorobenzene	**22.9**	D	µg/kg wet		20.0		114	70-130	8	30
1,2,4-Trichlorobenzene	**22.8**	D	µg/kg wet		20.0		114	70-130	4	30
1,3,5-Trichlorobenzene	**19.3**	D	µg/kg wet		20.0		97	70-130	4	30
1,1,1-Trichloroethane	**17.6**	D	µg/kg wet		20.0		88	70-130	3	30
1,1,2-Trichloroethane	**19.1**	D	µg/kg wet		20.0		95	70-130	2	30
Trichloroethene	**18.9**	D	µg/kg wet		20.0		95	70-130	2	30
Trichlorofluoromethane (Freon 11)	**17.0**	D	µg/kg wet		20.0		85	70-130	0.9	30
1,2,3-Trichloropropane	**19.4**	D	µg/kg wet		20.0		97	70-130	0.7	30
1,2,4-Trimethylbenzene	**20.0**	D	µg/kg wet		20.0		100	70-130	1	30
1,3,5-Trimethylbenzene	**19.5**	D	µg/kg wet		20.0		98	70-130	0.6	30
Vinyl chloride	**15.4**	D	µg/kg wet		20.0		77	70-130	2	30
m,p-Xylene	**38.2**	D	µg/kg wet		40.0		96	70-130	2	30
o-Xylene	**19.4**	D	µg/kg wet		20.0		97	70-130	2	30
Tetrahydrofuran	**20.1**	D	µg/kg wet		20.0		101	70-130	7	30
Ethyl ether	**18.2**	D	µg/kg wet		20.0		91	70-130	4	30
Tert-amyl methyl ether	**19.0**	D	µg/kg wet		20.0		95	70-130	1	30
Ethyl tert-butyl ether	**18.8**	D	µg/kg wet		20.0		94	70-130	3	30
Di-isopropyl ether	**18.2**	D	µg/kg wet		20.0		91	70-130	3	30
Tert-Butanol / butyl alcohol	**198**	D	µg/kg wet		200		99	70-130	7	30
1,4-Dioxane	**217**	D	µg/kg wet		200		108	70-130	10	30
trans-1,4-Dichloro-2-butene	**19.1**	D	µg/kg wet		20.0		95	70-130	5	30
Ethanol	**392**	D	µg/kg wet		400		98	70-130	4	30
Surrogate: 4-Bromofluorobenzene	*30.9*		µg/kg wet		*30.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*29.6*		µg/kg wet		*30.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/kg wet		*30.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*28.7*		µg/kg wet		*30.0*		*96*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320679 - SW846 3510C										
Blank (1320679-BLK2)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Acenaphthene	< 0.050		µg/l	0.050						
Acenaphthylene	< 0.050		µg/l	0.050						
1-Methylnaphthalene	< 0.050		µg/l	0.050						
Anthracene	< 0.050		µg/l	0.050						
Benzo (a) anthracene	< 0.050		µg/l	0.050						
Benzo (a) pyrene	< 0.050		µg/l	0.050						
Benzo (b) fluoranthene	< 0.050		µg/l	0.050						
Benzo (g,h,i) perylene	< 0.050		µg/l	0.050						
Benzo (k) fluoranthene	< 0.050		µg/l	0.050						
Chrysene	< 0.050		µg/l	0.050						
Dibenzo (a,h) anthracene	< 0.050		µg/l	0.050						
Fluoranthene	< 0.050		µg/l	0.050						
Fluorene	< 0.050		µg/l	0.050						
Indeno (1,2,3-cd) pyrene	< 0.050		µg/l	0.050						
2-Methylnaphthalene	< 0.050		µg/l	0.050						
Naphthalene	< 0.050		µg/l	0.050						
Phenanthrene	< 0.050		µg/l	0.050						
Pyrene	< 0.050		µg/l	0.050						
Surrogate: 2-Fluorobiphenyl	*38.1*		µg/l		*50.0*		*76*	*30-130*		
Surrogate: Terphenyl-dl4	*53.2*		µg/l		*50.0*		*106*	*30-130*		
Surrogate: Benzo (e) pyrene-d12	*0.954*		µg/l		*1.00*		*95*	*30-130*		
LCS (1320679-BS2)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Acenaphthene	**0.835**		µg/l	0.050	1.00		83	40-140		
Acenaphthylene	**0.898**		µg/l	0.050	1.00		90	40-140		
1-Methylnaphthalene	**0.764**		µg/l	0.050	1.00		76	40-140		
Anthracene	**0.970**		µg/l	0.050	1.00		97	40-140		
Benzo (a) anthracene	**0.963**		µg/l	0.050	1.00		96	40-140		
Benzo (a) pyrene	**1.06**		µg/l	0.050	1.00		106	40-140		
Benzo (b) fluoranthene	**0.991**		µg/l	0.050	1.00		99	40-140		
Benzo (g,h,i) perylene	**1.10**		µg/l	0.050	1.00		110	40-140		
Benzo (k) fluoranthene	**1.24**		µg/l	0.050	1.00		124	40-140		
Chrysene	**0.914**		µg/l	0.050	1.00		91	40-140		
Dibenzo (a,h) anthracene	**1.21**		µg/l	0.050	1.00		121	40-140		
Fluoranthene	**1.01**		µg/l	0.050	1.00		101	40-140		
Fluorene	**0.936**		µg/l	0.050	1.00		94	40-140		
Indeno (1,2,3-cd) pyrene	**1.07**		µg/l	0.050	1.00		107	40-140		
2-Methylnaphthalene	**0.875**		µg/l	0.050	1.00		88	40-140		
Naphthalene	**0.808**		µg/l	0.050	1.00		81	40-140		
Phenanthrene	**0.884**		µg/l	0.050	1.00		88	40-140		
Pyrene	**1.04**		µg/l	0.050	1.00		104	40-140		
Surrogate: 2-Fluorobiphenyl	*39.7*		µg/l		*50.0*		*79*	*30-130*		
Surrogate: Terphenyl-dl4	*47.7*		µg/l		*50.0*		*95*	*30-130*		
Surrogate: Benzo (e) pyrene-d12	*0.944*		µg/l		*1.00*		*94*	*30-130*		
LCS Dup (1320679-BSD2)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Acenaphthene	**0.806**		µg/l	0.050	1.00		81	40-140	3	20
Acenaphthylene	**0.853**		µg/l	0.050	1.00		85	40-140	5	20
1-Methylnaphthalene	**0.725**		µg/l	0.050	1.00		72	40-140	5	20
Anthracene	**0.907**		µg/l	0.050	1.00		91	40-140	7	20
Benzo (a) anthracene	**0.887**		µg/l	0.050	1.00		89	40-140	8	20
Benzo (a) pyrene	**0.974**		µg/l	0.050	1.00		97	40-140	9	20
Benzo (b) fluoranthene	**0.930**		µg/l	0.050	1.00		93	40-140	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320679 - SW846 3510C										
LCS Dup (1320679-BSD2)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Benzo (g,h,i) perylene	**0.997**		µg/l	0.050	1.00		100	40-140	9	20
Benzo (k) fluoranthene	**1.14**		µg/l	0.050	1.00		114	40-140	9	20
Chrysene	**0.852**		µg/l	0.050	1.00		85	40-140	7	20
Dibenzo (a,h) anthracene	**1.10**		µg/l	0.050	1.00		110	40-140	10	20
Fluoranthene	**0.952**		µg/l	0.050	1.00		95	40-140	6	20
Fluorene	**0.894**		µg/l	0.050	1.00		89	40-140	5	20
Indeno (1,2,3-cd) pyrene	**1.08**		µg/l	0.050	1.00		108	40-140	0.6	20
2-Methylnaphthalene	**0.817**		µg/l	0.050	1.00		82	40-140	7	20
Naphthalene	**0.757**		µg/l	0.050	1.00		76	40-140	7	20
Phenanthrene	**0.819**		µg/l	0.050	1.00		82	40-140	8	20
Pyrene	**0.983**		µg/l	0.050	1.00		98	40-140	6	20
Surrogate: 2-Fluorobiphenyl	*40.5*		µg/l		*50.0*		*81*	*30-130*		
Surrogate: Terphenyl-dl4	*48.0*		µg/l		*50.0*		*96*	*30-130*		
Surrogate: Benzo (e) pyrene-d12	*0.896*		µg/l		*1.00*		*90*	*30-130*		
Duplicate (1320679-DUP1)		GS1	**Source: SB75690-19**		Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Acenaphthene	**1.73**	D	µg/l	0.500		BRL				20
Acenaphthylene	**4.59**	QR5, D	µg/l	0.500		3.05			40	20
1-Methylnaphthalene	**19.6**	D	µg/l	0.500		16.2			18	20
Anthracene	**2.66**	D	µg/l	0.500		2.44			8	20
Benzo (a) anthracene	**0.622**	QR5, D	µg/l	0.500		0.407			42	20
Benzo (a) pyrene	< 0.500	D	µg/l	0.500		BRL				20
Benzo (b) fluoranthene	< 0.500	D	µg/l	0.500		BRL				20
Benzo (g,h,i) perylene	< 0.500	D	µg/l	0.500		BRL				20
Benzo (k) fluoranthene	< 0.500	D	µg/l	0.500		BRL				20
Chrysene	**0.641**	QR5, D	µg/l	0.500		0.470			31	20
Dibenzo (a,h) anthracene	< 0.500	D	µg/l	0.500		BRL				20
Fluoranthene	**4.82**	D	µg/l	0.500		4.11			16	20
Fluorene	**4.96**	QR5, D	µg/l	0.500		3.21			43	20
Indeno (1,2,3-cd) pyrene	< 0.500	D	µg/l	0.500		BRL				20
2-Methylnaphthalene	**31.4**	QR5, D	µg/l	0.500		25.5			21	20
Naphthalene	**93.7**	D	µg/l	0.500		88.2			6	20
Phenanthrene	**11.8**	D	µg/l	0.500		10.2			15	20
Pyrene	**3.68**	D	µg/l	0.500		3.02			20	20
Surrogate: 2-Fluorobiphenyl	*48.3*		µg/l		*62.5*		*77*	*30-130*		
Surrogate: Terphenyl-dl4	*38.4*		µg/l		*62.5*		*61*	*30-130*		
Surrogate: Benzo (e) pyrene-d12	*0.786*		µg/l		*1.25*		*63*	*30-130*		
Batch 1320770 - SW846 3545A										
Blank (1320770-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320770 - SW846 3545A										
Blank (1320770-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
Naphthalene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyrene	< 167		µg/kg wet	167						
Surrogate: 2-Fluorobiphenyl	*1760*		µg/kg wet		*1670*		*106*	*30-130*		
Surrogate: Terphenyl-dl4	*1990*		µg/kg wet		*1670*		*119*	*30-130*		
LCS (1320770-BS1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Acenaphthene	**1690**		µg/kg wet	167	1670		102	40-140		
Acenaphthylene	**1550**		µg/kg wet	167	1670		93	40-140		
Anthracene	**1590**		µg/kg wet	167	1670		95	40-140		
Benzo (a) anthracene	**1540**		µg/kg wet	167	1670		93	40-140		
Benzo (a) pyrene	**1640**		µg/kg wet	167	1670		98	40-140		
Benzo (b) fluoranthene	**1690**		µg/kg wet	167	1670		101	40-140		
Benzo (g,h,i) perylene	**1610**		µg/kg wet	167	1670		97	40-140		
Benzo (k) fluoranthene	**1620**		µg/kg wet	167	1670		97	40-140		
Chrysene	**1720**		µg/kg wet	167	1670		103	40-140		
Dibenzo (a,h) anthracene	**1780**		µg/kg wet	167	1670		107	40-140		
Fluoranthene	**1640**		µg/kg wet	167	1670		98	40-140		
Fluorene	**1670**		µg/kg wet	167	1670		100	40-140		
Indeno (1,2,3-cd) pyrene	**1770**		µg/kg wet	167	1670		106	40-140		
1-Methylnaphthalene	**1340**		µg/kg wet	167	1670		80	40-140		
2-Methylnaphthalene	**2020**		µg/kg wet	167	1670		121	40-140		
Naphthalene	**1530**		µg/kg wet	167	1670		92	40-140		
Phenanthrene	**1590**		µg/kg wet	167	1670		96	40-140		
Pyrene	**1570**		µg/kg wet	167	1670		94	40-140		
Surrogate: 2-Fluorobiphenyl	*1470*		µg/kg wet		*1670*		*88*	*30-130*		
Surrogate: Terphenyl-dl4	*1600*		µg/kg wet		*1670*		*96*	*30-130*		
Duplicate (1320770-DUP1)			**Source: SB75690-05**		Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Acenaphthene	< 186		µg/kg dry	186		BRL				30
Acenaphthylene	< 186		µg/kg dry	186		BRL				30
Anthracene	< 186		µg/kg dry	186		BRL				30
Benzo (a) anthracene	**87.1**	J	µg/kg dry	186		90.6			4	30
Benzo (a) pyrene	**103**	J	µg/kg dry	186		109			5	30
Benzo (b) fluoranthene	**97.1**	J	µg/kg dry	186		121			22	30
Benzo (g,h,i) perylene	< 186		µg/kg dry	186		57.0				30
Benzo (k) fluoranthene	**85.6**	J	µg/kg dry	186		78.6			9	30
Chrysene	**83.0**	J	µg/kg dry	186		88.8			7	30
Dibenzo (a,h) anthracene	< 186		µg/kg dry	186		BRL				30
Fluoranthene	**134**	J	µg/kg dry	186		117			13	30
Fluorene	< 186		µg/kg dry	186		BRL				30
Indeno (1,2,3-cd) pyrene	**58.4**	J	µg/kg dry	186		67.3			14	30
1-Methylnaphthalene	< 186		µg/kg dry	186		BRL				30
2-Methylnaphthalene	< 186		µg/kg dry	186		BRL				30
Naphthalene	< 186		µg/kg dry	186		BRL				30
Phenanthrene	< 186		µg/kg dry	186		BRL				30
Pyrene	**111**	J	µg/kg dry	186		106			5	30
Surrogate: 2-Fluorobiphenyl	*1450*		µg/kg dry		*1860*		*78*	*30-130*		
Surrogate: Terphenyl-dl4	*1720*		µg/kg dry		*1860*		*92*	*30-130*		
Matrix Spike (1320770-MS1)			**Source: SB75690-05**		Prepared: 28-Aug-13 Analyzed: 29-Aug-13					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320770 - SW846 3545A										
Matrix Spike (1320770-MS1)			**Source: SB75690-05**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Acenaphthene	**1710**		µg/kg dry	187	1870	BRL	92	40-140		
Acenaphthylene	**1550**		µg/kg dry	187	1870	BRL	83	40-140		
Anthracene	**1590**		µg/kg dry	187	1870	BRL	85	40-140		
Benzo (a) anthracene	**1600**		µg/kg dry	187	1870	90.6	81	40-140		
Benzo (a) pyrene	**1650**		µg/kg dry	187	1870	109	83	40-140		
Benzo (b) fluoranthene	**1910**		µg/kg dry	187	1870	121	96	40-140		
Benzo (g,h,i) perylene	**1100**		µg/kg dry	187	1870	57.0	56	40-140		
Benzo (k) fluoranthene	**1710**		µg/kg dry	187	1870	78.6	87	40-140		
Chrysene	**1800**		µg/kg dry	187	1870	88.8	92	40-140		
Dibenzo (a,h) anthracene	**1300**		µg/kg dry	187	1870	BRL	70	40-140		
Fluoranthene	**1760**		µg/kg dry	187	1870	117	88	40-140		
Fluorene	**1700**		µg/kg dry	187	1870	BRL	91	40-140		
Indeno (1,2,3-cd) pyrene	**1280**		µg/kg dry	187	1870	67.3	65	40-140		
1-Methylnaphthalene	**1380**		µg/kg dry	187	1870	BRL	74	40-140		
2-Methylnaphthalene	**1950**		µg/kg dry	187	1870	BRL	104	40-140		
Naphthalene	**1580**		µg/kg dry	187	1870	BRL	85	40-140		
Phenanthrene	**1620**		µg/kg dry	187	1870	BRL	87	40-140		
Pyrene	**1690**		µg/kg dry	187	1870	106	85	40-140		
Surrogate: 2-Fluorobiphenyl	*1480*		µg/kg dry		*1870*		*79*	*30-130*		
Surrogate: Terphenyl-dl4	*1620*		µg/kg dry		*1870*		*87*	*30-130*		
Matrix Spike Dup (1320770-MSD1)			**Source: SB75690-05**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Acenaphthene	**1560**		µg/kg dry	186	1860	BRL	84	40-140	9	30
Acenaphthylene	**1420**		µg/kg dry	186	1860	BRL	76	40-140	8	30
Anthracene	**1500**		µg/kg dry	186	1860	BRL	81	40-140	5	30
Benzo (a) anthracene	**1550**		µg/kg dry	186	1860	90.6	78	40-140	3	30
Benzo (a) pyrene	**1630**		µg/kg dry	186	1860	109	82	40-140	1	30
Benzo (b) fluoranthene	**1860**		µg/kg dry	186	1860	121	94	40-140	2	30
Benzo (g,h,i) perylene	**868**		µg/kg dry	186	1860	57.0	44	40-140	24	30
Benzo (k) fluoranthene	**1800**		µg/kg dry	186	1860	78.6	93	40-140	6	30
Chrysene	**1710**		µg/kg dry	186	1860	88.8	87	40-140	5	30
Dibenzo (a,h) anthracene	**1050**		µg/kg dry	186	1860	BRL	56	40-140	21	30
Fluoranthene	**1770**		µg/kg dry	186	1860	117	89	40-140	1	30
Fluorene	**1530**		µg/kg dry	186	1860	BRL	82	40-140	10	30
Indeno (1,2,3-cd) pyrene	**1050**		µg/kg dry	186	1860	67.3	53	40-140	21	30
1-Methylnaphthalene	**1290**		µg/kg dry	186	1860	BRL	69	40-140	6	30
2-Methylnaphthalene	**1800**		µg/kg dry	186	1860	BRL	97	40-140	7	30
Naphthalene	**1490**		µg/kg dry	186	1860	BRL	80	40-140	6	30
Phenanthrene	**1530**		µg/kg dry	186	1860	BRL	82	40-140	5	30
Pyrene	**1640**		µg/kg dry	186	1860	106	83	40-140	3	30
Surrogate: 2-Fluorobiphenyl	*1310*		µg/kg dry		*1860*		*71*	*30-130*		
Surrogate: Terphenyl-dl4	*1520*		µg/kg dry		*1860*		*82*	*30-130*		
Batch 1320819 - SW846 3545A										
Blank (1320819-BLK1)					Prepared: 29-Aug-13	Analyzed: 30-Aug-13				
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Acenaphthylene	< 167		µg/kg wet	167						
Aniline	< 330		µg/kg wet	330						
Anthracene	< 167		µg/kg wet	167						
Anthracene	< 167		µg/kg wet	167						
Azobenzene/Diphenyldiazene	< 330		µg/kg wet	330						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320819 - SW846 3545A										
Blank (1320819-BLK1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Benzidine	< 330		µg/kg wet	330						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) anthracene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (a) pyrene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzo (b) fluoranthene	< 167		µg/kg wet	167						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Benzo (g,h,i) perylene	< 167		µg/kg wet	167						
Benzoic acid	< 330		µg/kg wet	330						
Benzo (k) fluoranthene	< 167		µg/kg wet	167						
Benzyl alcohol	< 330		µg/kg wet	330						
Bis(2-chloroethoxy)methane	< 330		µg/kg wet	330						
Bis(2-chloroethyl)ether	< 167		µg/kg wet	167						
Bis(2-chloroisopropyl)ether	< 167		µg/kg wet	167						
Bis(2-ethylhexyl)phthalate	< 167		µg/kg wet	167						
4-Bromophenyl phenyl ether	< 330		µg/kg wet	330						
Butyl benzyl phthalate	< 330		µg/kg wet	330						
Carbazole	< 167		µg/kg wet	167						
4-Chloro-3-methylphenol	< 330		µg/kg wet	330						
4-Chloroaniline	< 167		µg/kg wet	167						
2-Chloronaphthalene	< 330		µg/kg wet	330						
2-Chlorophenol	< 167		µg/kg wet	167						
4-Chlorophenyl phenyl ether	< 330		µg/kg wet	330						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Chrysene	< 167		µg/kg wet	167						
Dibenzo (a,h) anthracene	< 167		µg/kg wet	167						
Dibenzofuran	< 167		µg/kg wet	167						
1,2-Dichlorobenzene	< 330		µg/kg wet	330						
1,3-Dichlorobenzene	< 330		µg/kg wet	330						
1,4-Dichlorobenzene	< 330		µg/kg wet	330						
3,3´-Dichlorobenzidine	< 330		µg/kg wet	330						
2,4-Dichlorophenol	< 167		µg/kg wet	167						
Diethyl phthalate	< 330		µg/kg wet	330						
Dimethyl phthalate	< 330		µg/kg wet	330						
2,4-Dimethylphenol	< 330		µg/kg wet	330						
Di-n-butyl phthalate	< 330		µg/kg wet	330						
4,6-Dinitro-2-methylphenol	< 330		µg/kg wet	330						
2,4-Dinitrophenol	< 330		µg/kg wet	330						
2,4-Dinitrotoluene	< 167		µg/kg wet	167						
2,6-Dinitrotoluene	< 167		µg/kg wet	167						
Di-n-octyl phthalate	< 330		µg/kg wet	330						
Fluoranthene	< 167		µg/kg wet	167						
Fluoranthene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Hexachlorobenzene	< 167		µg/kg wet	167						
Fluorene	< 167		µg/kg wet	167						
Hexachlorobutadiene	< 167		µg/kg wet	167						
Hexachlorocyclopentadiene	< 167		µg/kg wet	167						
Hexachloroethane	< 167		µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320819 - SW846 3545A										
Blank (1320819-BLK1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
Isophorone	< 167		µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylnaphthalene	< 167		µg/kg wet	167						
2-Methylphenol	< 330		µg/kg wet	330						
3 & 4-Methylphenol	< 330		µg/kg wet	330						
Naphthalene	< 167		µg/kg wet	167						
2-Nitroaniline	< 330		µg/kg wet	330						
Naphthalene	< 167		µg/kg wet	167						
3-Nitroaniline	< 330		µg/kg wet	330						
4-Nitroaniline	< 167		µg/kg wet	167						
Nitrobenzene	< 167		µg/kg wet	167						
2-Nitrophenol	< 167		µg/kg wet	167						
4-Nitrophenol	< 1320		µg/kg wet	1320						
N-Nitrosodimethylamine	< 167		µg/kg wet	167						
N-Nitrosodi-n-propylamine	< 167		µg/kg wet	167						
N-Nitrosodiphenylamine	< 330		µg/kg wet	330						
Pentachlorophenol	< 330		µg/kg wet	330						
Phenanthrene	< 167		µg/kg wet	167						
Phenol	< 330		µg/kg wet	330						
Pyrene	< 167		µg/kg wet	167						
Phenanthrene	< 167		µg/kg wet	167						
Pyridine	< 330		µg/kg wet	330						
1,2,4-Trichlorobenzene	< 330		µg/kg wet	330						
Pyrene	< 167		µg/kg wet	167						
1-Methylnaphthalene	< 167		µg/kg wet	167						
2,4,5-Trichlorophenol	< 330		µg/kg wet	330						
2,4,6-Trichlorophenol	< 167		µg/kg wet	167						
Pentachloronitrobenzene	< 330		µg/kg wet	330						
1,2,4,5-Tetrachlorobenzene	< 330		µg/kg wet	330						
Surrogate: 2-Fluorobiphenyl	*965*		µg/kg wet		*1670*		*58*	*30-130*		
Surrogate: Terphenyl-dl4	*1100*		µg/kg wet		*1670*		*66*	*30-130*		
Surrogate: 2-Fluorobiphenyl	*965*		µg/kg wet		*1670*		*58*	*30-130*		
Surrogate: 2-Fluorophenol	*856*		µg/kg wet		*1670*		*51*	*30-130*		
Surrogate: Nitrobenzene-d5	*945*		µg/kg wet		*1670*		*57*	*30-130*		
Surrogate: Phenol-d5	*862*		µg/kg wet		*1670*		*52*	*30-130*		
Surrogate: Terphenyl-dl4	*1100*		µg/kg wet		*1670*		*66*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1220*		µg/kg wet		*1670*		*73*	*30-130*		
LCS (1320819-BS1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Acenaphthene	**2090**		µg/kg wet	167	1670		125	40-140		
Acenaphthene	**2090**		µg/kg wet	167	1670		125	40-140		
Acenaphthylene	**1840**		µg/kg wet	167	1670		110	40-140		
Acenaphthylene	**1840**		µg/kg wet	167	1670		110	40-140		
Aniline	**1200**		µg/kg wet	330	1670		72	40-140		
Anthracene	**1840**		µg/kg wet	167	1670		111	40-140		
Anthracene	**1840**		µg/kg wet	167	1670		111	40-140		
Azobenzene/Diphenyldiazene	**1670**		µg/kg wet	330	1670		100	40-140		
Benzidine	**536**	QC2	µg/kg wet	330	1670		32	40-140		
Benzo (a) anthracene	**1860**		µg/kg wet	167	1670		112	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320819 - SW846 3545A										
LCS (1320819-BS1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Benzo (a) anthracene	**1860**		µg/kg wet	167	1670		112	40-140		
Benzo (a) pyrene	**1890**		µg/kg wet	167	1670		114	40-140		
Benzo (b) fluoranthene	**2030**		µg/kg wet	167	1670		122	40-140		
Benzo (a) pyrene	**1890**		µg/kg wet	167	1670		114	40-140		
Benzo (b) fluoranthene	**2030**		µg/kg wet	167	1670		122	40-140		
Benzo (g,h,i) perylene	**1900**		µg/kg wet	167	1670		114	40-140		
Benzo (k) fluoranthene	**1650**		µg/kg wet	167	1670		99	40-140		
Benzo (g,h,i) perylene	**1900**		µg/kg wet	167	1670		114	40-140		
Benzo (k) fluoranthene	**1650**		µg/kg wet	167	1670		99	40-140		
Benzoic acid	**309**	QC2	µg/kg wet	330	1670		19	30-130		
Benzyl alcohol	**1240**		µg/kg wet	330	1670		74	40-140		
Bis(2-chloroethoxy)methane	**1220**		µg/kg wet	330	1670		73	40-140		
Bis(2-chloroethyl)ether	**1240**		µg/kg wet	167	1670		75	40-140		
Bis(2-chloroisopropyl)ether	**1420**		µg/kg wet	167	1670		85	40-140		
Bis(2-ethylhexyl)phthalate	**1670**		µg/kg wet	167	1670		100	40-140		
4-Bromophenyl phenyl ether	**1960**		µg/kg wet	330	1670		118	40-140		
Butyl benzyl phthalate	**1470**		µg/kg wet	330	1670		88	40-140		
Carbazole	**1700**		µg/kg wet	167	1670		102	40-140		
4-Chloro-3-methylphenol	**1410**		µg/kg wet	330	1670		85	30-130		
4-Chloroaniline	**1470**		µg/kg wet	167	1670		88	40-140		
2-Chloronaphthalene	**1890**		µg/kg wet	330	1670		113	40-140		
2-Chlorophenol	**1470**		µg/kg wet	167	1670		88	30-130		
4-Chlorophenyl phenyl ether	**2420**	QC2	µg/kg wet	330	1670		145	40-140		
Chrysene	**1990**		µg/kg wet	167	1670		119	40-140		
Dibenzo (a,h) anthracene	**2120**		µg/kg wet	167	1670		127	40-140		
Chrysene	**1990**		µg/kg wet	167	1670		119	40-140		
Dibenzo (a,h) anthracene	**2120**		µg/kg wet	167	1670		127	40-140		
Dibenzofuran	**2030**		µg/kg wet	167	1670		122	40-140		
1,2-Dichlorobenzene	**1570**		µg/kg wet	330	1670		94	40-140		
1,3-Dichlorobenzene	**1550**		µg/kg wet	330	1670		93	40-140		
1,4-Dichlorobenzene	**1600**		µg/kg wet	330	1670		96	40-140		
3,3´-Dichlorobenzidine	**2300**		µg/kg wet	330	1670		138	40-140		
2,4-Dichlorophenol	**1860**		µg/kg wet	167	1670		111	30-130		
Diethyl phthalate	**2220**		µg/kg wet	330	1670		133	40-140		
Dimethyl phthalate	**1910**		µg/kg wet	330	1670		114	40-140		
2,4-Dimethylphenol	**1600**		µg/kg wet	330	1670		96	30-130		
Di-n-butyl phthalate	**1720**		µg/kg wet	330	1670		103	40-140		
4,6-Dinitro-2-methylphenol	**1420**		µg/kg wet	330	1670		85	30-130		
2,4-Dinitrophenol	**847**		µg/kg wet	330	1670		51	30-130		
2,4-Dinitrotoluene	**2000**		µg/kg wet	167	1670		120	40-140		
2,6-Dinitrotoluene	**1870**		µg/kg wet	167	1670		112	40-140		
Di-n-octyl phthalate	**1740**		µg/kg wet	330	1670		105	40-140		
Fluoranthene	**1910**		µg/kg wet	167	1670		115	40-140		
Fluorene	**2040**		µg/kg wet	167	1670		123	40-140		
Fluoranthene	**1910**		µg/kg wet	167	1670		115	40-140		
Hexachlorobenzene	**2340**		µg/kg wet	167	1670		140	40-140		
Fluorene	**2040**		µg/kg wet	167	1670		123	40-140		
Hexachlorobutadiene	**2330**		µg/kg wet	167	1670		140	40-140		
Hexachlorocyclopentadiene	**2440**	QC2	µg/kg wet	167	1670		147	40-140		
Hexachloroethane	**1730**		µg/kg wet	167	1670		104	40-140		
Indeno (1,2,3-cd) pyrene	**2080**		µg/kg wet	167	1670		125	40-140		
Indeno (1,2,3-cd) pyrene	**2080**		µg/kg wet	167	1670		125	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320819 - SW846 3545A										
LCS (1320819-BS1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Isophorone	**1450**		µg/kg wet	167	1670		87	40-140		
2-Methylnaphthalene	**1840**		µg/kg wet	167	1670		110	40-140		
1-Methylnaphthalene	**1700**		µg/kg wet	167	1670		102	40-140		
2-Methylphenol	**1560**		µg/kg wet	330	1670		94	30-130		
2-Methylnaphthalene	**1840**		µg/kg wet	167	1670		110	40-140		
3 & 4-Methylphenol	**1630**		µg/kg wet	330	1670		98	30-130		
Naphthalene	**1860**		µg/kg wet	167	1670		111	40-140		
2-Nitroaniline	**1660**		µg/kg wet	330	1670		99	40-140		
Naphthalene	**1860**		µg/kg wet	167	1670		111	40-140		
3-Nitroaniline	**1700**		µg/kg wet	330	1670		102	40-140		
4-Nitroaniline	**1550**		µg/kg wet	167	1670		93	40-140		
Nitrobenzene	**1640**		µg/kg wet	167	1670		98	40-140		
2-Nitrophenol	**1720**		µg/kg wet	167	1670		103	30-130		
4-Nitrophenol	**1160**		µg/kg wet	1320	1670		70	30-130		
N-Nitrosodimethylamine	**1210**		µg/kg wet	167	1670		73	40-140		
N-Nitrosodi-n-propylamine	**1510**		µg/kg wet	167	1670		90	40-140		
N-Nitrosodiphenylamine	**1960**		µg/kg wet	330	1670		118	40-140		
Pentachlorophenol	**1490**		µg/kg wet	330	1670		89	30-130		
Phenanthrene	**1880**		µg/kg wet	167	1670		113	40-140		
Phenol	**1380**		µg/kg wet	330	1670		83	30-130		
Pyrene	**1790**		µg/kg wet	167	1670		108	40-140		
Phenanthrene	**1880**		µg/kg wet	167	1670		113	40-140		
Pyridine	**965**		µg/kg wet	330	1670		58	40-140		
1,2,4-Trichlorobenzene	**1960**		µg/kg wet	330	1670		118	40-140		
1-Methylnaphthalene	**1700**		µg/kg wet	167	1670		102	40-140		
Pyrene	**1790**		µg/kg wet	167	1670		108	40-140		
2,4,5-Trichlorophenol	**1930**		µg/kg wet	330	1670		116	30-130		
2,4,6-Trichlorophenol	**2010**		µg/kg wet	167	1670		120	30-130		
Pentachloronitrobenzene	**2350**	QC2	µg/kg wet	330	1670		141	40-140		
1,2,4,5-Tetrachlorobenzene	**1840**		µg/kg wet	330	1670		110	40-140		
Surrogate: 2-Fluorobiphenyl	*1730*		µg/kg wet		*1670*		*104*	*30-130*		
Surrogate: Terphenyl-dl4	*1790*		µg/kg wet		*1670*		*108*	*30-130*		
Surrogate: 2-Fluorobiphenyl	*1730*		µg/kg wet		*1670*		*104*	*30-130*		
Surrogate: 2-Fluorophenol	*1160*		µg/kg wet		*1670*		*69*	*30-130*		
Surrogate: Nitrobenzene-d5	*1510*		µg/kg wet		*1670*		*91*	*30-130*		
Surrogate: Phenol-d5	*1260*		µg/kg wet		*1670*		*76*	*30-130*		
Surrogate: Terphenyl-dl4	*1790*		µg/kg wet		*1670*		*108*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*2160*		µg/kg wet		*1670*		*130*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320688 - SW846 3545A										
Blank (1320688-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Aroclor-1016	< 20.0		µg/kg wet	20.0						
Aroclor-1016 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1221	< 20.0		µg/kg wet	20.0						
Aroclor-1221 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1232	< 20.0		µg/kg wet	20.0						
Aroclor-1232 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1242	< 20.0		µg/kg wet	20.0						
Aroclor-1242 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1248	< 20.0		µg/kg wet	20.0						
Aroclor-1248 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1254	< 20.0		µg/kg wet	20.0						
Aroclor-1254 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1260	< 20.0		µg/kg wet	20.0						
Aroclor-1260 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1262	< 20.0		µg/kg wet	20.0						
Aroclor-1262 [2C]	< 20.0		µg/kg wet	20.0						
Aroclor-1268	< 20.0		µg/kg wet	20.0						
Aroclor-1268 [2C]	< 20.0		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*22.0*		µg/kg wet		*20.0*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
LCS (1320688-BS1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Aroclor-1016	**193**		µg/kg wet	20.0	250		77	40-140		
Aroclor-1016 [2C]	**180**		µg/kg wet	20.0	250		72	40-140		
Aroclor-1260	**202**		µg/kg wet	20.0	250		81	40-140		
Aroclor-1260 [2C]	**160**		µg/kg wet	20.0	250		64	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
LCS Dup (1320688-BSD1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Aroclor-1016	**195**		µg/kg wet	20.0	250		78	40-140	1	30
Aroclor-1016 [2C]	**181**		µg/kg wet	20.0	250		72	40-140	0.6	30
Aroclor-1260	**203**		µg/kg wet	20.0	250		81	40-140	0.5	30
Aroclor-1260 [2C]	**163**		µg/kg wet	20.0	250		65	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*16.0*		µg/kg wet		*20.0*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*24.0*		µg/kg wet		*20.0*		*120*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*17.0*		µg/kg wet		*20.0*		*85*	*30-150*		
Batch 1320771 - SW846 3510C										
Blank (1320771-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Aroclor-1016	< 0.200		µg/l	0.200						
Aroclor-1016 [2C]	< 0.200		µg/l	0.200						
Aroclor-1221	< 0.200		µg/l	0.200						
Aroclor-1221 [2C]	< 0.200		µg/l	0.200						
Aroclor-1232	< 0.200		µg/l	0.200						
Aroclor-1232 [2C]	< 0.200		µg/l	0.200						
Aroclor-1242	< 0.200		µg/l	0.200						
Aroclor-1242 [2C]	< 0.200		µg/l	0.200						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320771 - SW846 3510C										
Blank (1320771-BLK1)						Prepared: 28-Aug-13 Analyzed: 29-Aug-13				
Aroclor-1248	< 0.200		µg/l	0.200						
Aroclor-1248 [2C]	< 0.200		µg/l	0.200						
Aroclor-1254	< 0.200		µg/l	0.200						
Aroclor-1254 [2C]	< 0.200		µg/l	0.200						
Aroclor-1260	< 0.200		µg/l	0.200						
Aroclor-1260 [2C]	< 0.200		µg/l	0.200						
Aroclor-1262	< 0.200		µg/l	0.200						
Aroclor-1262 [2C]	< 0.200		µg/l	0.200						
Aroclor-1268	< 0.200		µg/l	0.200						
Aroclor-1268 [2C]	< 0.200		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.190*		µg/l		*0.200*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.220*		µg/l		*0.200*		*110*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.260*		µg/l		*0.200*		*130*	*30-150*		
LCS (1320771-BS1)						Prepared: 28-Aug-13 Analyzed: 29-Aug-13				
Aroclor-1016	**1.90**		µg/l	0.200	2.50		76	40-140		
Aroclor-1016 [2C]	**1.81**		µg/l	0.200	2.50		72	40-140		
Aroclor-1260	**1.58**		µg/l	0.200	2.50		63	40-140		
Aroclor-1260 [2C]	**1.52**		µg/l	0.200	2.50		61	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.160*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.170*		µg/l		*0.200*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.210*		µg/l		*0.200*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.210*		µg/l		*0.200*		*105*	*30-150*		
LCS Dup (1320771-BSD1)						Prepared: 28-Aug-13 Analyzed: 29-Aug-13				
Aroclor-1016	**1.91**		µg/l	0.200	2.50		76	40-140	0.5	20
Aroclor-1016 [2C]	**1.82**		µg/l	0.200	2.50		73	40-140	0.6	20
Aroclor-1260	**1.61**		µg/l	0.200	2.50		64	40-140	2	20
Aroclor-1260 [2C]	**1.64**		µg/l	0.200	2.50		66	40-140	8	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.160*		µg/l		*0.200*		*80*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.170*		µg/l		*0.200*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.210*		µg/l		*0.200*		*105*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.220*		µg/l		*0.200*		*110*	*30-150*		
Duplicate (1320771-DUP1)			**Source: SB75690-17**			Prepared: 28-Aug-13 Analyzed: 29-Aug-13				
Aroclor-1016	< 0.208		µg/l	0.208		BRL				20
Aroclor-1016 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1221	< 0.208		µg/l	0.208		BRL				20
Aroclor-1221 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1232	< 0.208		µg/l	0.208		BRL				20
Aroclor-1232 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1242	< 0.208		µg/l	0.208		BRL				20
Aroclor-1242 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1248	< 0.208		µg/l	0.208		BRL				20
Aroclor-1248 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1254	< 0.208		µg/l	0.208		BRL				20
Aroclor-1254 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1260	< 0.208		µg/l	0.208		BRL				20
Aroclor-1260 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1262	< 0.208		µg/l	0.208		BRL				20
Aroclor-1262 [2C]	< 0.208		µg/l	0.208		BRL				20
Aroclor-1268	< 0.208		µg/l	0.208		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320771 - SW846 3510C										
Duplicate (1320771-DUP1)			**Source: SB75690-17**		Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Aroclor-1268 [2C]	< 0.208		µg/l	0.208		BRL				20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.156*		µg/l		*0.208*		*75*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.167*		µg/l		*0.208*		*80*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.146*		µg/l		*0.208*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.146*		µg/l		*0.208*		*70*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320678 - SW846 3510C										
Blank (1320678-BLK1)					Prepared & Analyzed: 28-Aug-13					
Gasoline	< 0.2		mg/l	0.2						
Fuel Oil #2	< 0.2		mg/l	0.2						
Fuel Oil #4	< 0.2		mg/l	0.2						
Fuel Oil #6	< 0.2		mg/l	0.2						
Motor Oil	< 0.2		mg/l	0.2						
Aviation Fuel	< 0.2		mg/l	0.2						
Unidentified	< 0.2		mg/l	0.2						
Other Oil	< 0.2		mg/l	0.2						
Total Petroleum Hydrocarbons	< 0.2		mg/l	0.2						
C9-C36 Aliphatic Hydrocarbons	< 0.2		mg/l	0.2						
n-Nonadecane	< 0.005		mg/l	0.005						
n-Nonane	< 0.005		mg/l	0.005						
n-Decane	< 0.005		mg/l	0.005						
n-Dodecane	< 0.005		mg/l	0.005						
n-Tetradecane	< 0.005		mg/l	0.005						
n-Hexadecane	< 0.005		mg/l	0.005						
n-Octadecane	< 0.005		mg/l	0.005						
n-Eicosane	< 0.005		mg/l	0.005						
n-Docosane	< 0.005		mg/l	0.005						
n-Tetracosane	< 0.005		mg/l	0.005						
n-Hexacosane	< 0.005		mg/l	0.005						
n-Octacosane	< 0.005		mg/l	0.005						
n-Triacontane	< 0.005		mg/l	0.005						
n-Hexatriacontane	< 0.005		mg/l	0.005						
Surrogate: 1-Chlorooctadecane	*0.0138*		mg/l		*0.0250*		*55*	*50-150*		
LCS (1320678-BS1)					Prepared & Analyzed: 28-Aug-13					
C9-C36 Aliphatic Hydrocarbons	**0.9**		mg/l	0.2	1.40		63	60-120		
Surrogate: 1-Chlorooctadecane	*0.0399*		mg/l		*0.0500*		*80*	*50-150*		
Batch 1320772 - SW846 3550C										
Blank (1320772-BLK1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320772 - SW846 3550C										
Blank (1320772-BLK1)						Prepared: 28-Aug-13	Analyzed: 29-Aug-13			
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.66*		mg/kg wet		*3.33*		*80*	*50-150*		
LCS (1320772-BS1)						Prepared: 28-Aug-13	Analyzed: 29-Aug-13			
C9-C36 Aliphatic Hydrocarbons	**72.8**		mg/kg wet	26.6	93.3		78	60-120		
Surrogate: 1-Chlorooctadecane	*3.13*		mg/kg wet		*3.33*		*94*	*50-150*		
Duplicate (1320772-DUP1)			**Source: SB75690-11**			Prepared: 28-Aug-13	Analyzed: 30-Aug-13			
Gasoline	< 29.5		mg/kg dry	29.5		BRL				50
Fuel Oil #2	< 29.5		mg/kg dry	29.5		BRL				50
Fuel Oil #4	< 29.5		mg/kg dry	29.5		BRL				50
Fuel Oil #6	< 29.5		mg/kg dry	29.5		BRL				50
Motor Oil	< 29.5		mg/kg dry	29.5		BRL				50
Aviation Fuel	< 29.5		mg/kg dry	29.5		BRL				50
Unidentified	**411**		mg/kg dry	29.5		550			29	50
Other Oil	**Calculated as**		mg/kg dry	29.5		Calculated as				50
Total Petroleum Hydrocarbons	**411**		mg/kg dry	29.5		550			29	50
C9-C36 Aliphatic Hydrocarbons	**411**		mg/kg dry	29.5		550			29	50
Surrogate: 1-Chlorooctadecane	*20.2*	S02	mg/kg dry		*3.69*		*546*	*50-150*		
Matrix Spike (1320772-MS1)			**Source: SB75690-11**			Prepared: 28-Aug-13	Analyzed: 29-Aug-13			
C9-C36 Aliphatic Hydrocarbons	**457**	QM7	mg/kg dry	29.1	102	550	-91	50-150		
Surrogate: 1-Chlorooctadecane	*22.7*	S02	mg/kg dry		*3.64*		*622*	*50-150*		
Matrix Spike Dup (1320772-MSD1)			**Source: SB75690-11**			Prepared: 28-Aug-13	Analyzed: 29-Aug-13			
C9-C36 Aliphatic Hydrocarbons	**676**	QR5	mg/kg dry	29.3	103	550	123	50-150	NR	30
Surrogate: 1-Chlorooctadecane	*34.2*	S02	mg/kg dry		*3.67*		*934*	*50-150*		
Batch 1320818 - SW846 3550C										
Blank (1320818-BLK1)						Prepared & Analyzed: 29-Aug-13				
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320818 - SW846 3550C										
Blank (1320818-BLK1)						Prepared & Analyzed: 29-Aug-13				
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.30*		mg/kg wet		*3.33*		*69*	*50-150*		
LCS (1320818-BS1)						Prepared & Analyzed: 29-Aug-13				
C9-C36 Aliphatic Hydrocarbons	**111**		mg/kg wet	26.6	93.3		118	60-120		
Surrogate: 1-Chlorooctadecane	*2.77*		mg/kg wet		*3.33*		*83*	*50-150*		
Batch 1320928 - SW846 3550C										
Blank (1320928-BLK1)						Prepared & Analyzed: 30-Aug-13				
Gasoline	< 26.6		mg/kg wet	26.6						
Fuel Oil #2	< 26.6		mg/kg wet	26.6						
Fuel Oil #4	< 26.6		mg/kg wet	26.6						
Fuel Oil #6	< 26.6		mg/kg wet	26.6						
Motor Oil	< 26.6		mg/kg wet	26.6						
Aviation Fuel	< 26.6		mg/kg wet	26.6						
Unidentified	< 26.6		mg/kg wet	26.6						
Other Oil	< 26.6		mg/kg wet	26.6						
Total Petroleum Hydrocarbons	< 26.6		mg/kg wet	26.6						
C9-C36 Aliphatic Hydrocarbons	< 26.6		mg/kg wet	26.6						
n-Nonadecane	< 0.005		mg/kg wet	0.005						
n-Nonane	< 0.005		mg/kg wet	0.005						
n-Decane	< 0.005		mg/kg wet	0.005						
n-Dodecane	< 0.005		mg/kg wet	0.005						
n-Tetradecane	< 0.005		mg/kg wet	0.005						
n-Hexadecane	< 0.005		mg/kg wet	0.005						
n-Octadecane	< 0.005		mg/kg wet	0.005						
n-Eicosane	< 0.005		mg/kg wet	0.005						
n-Docosane	< 0.005		mg/kg wet	0.005						
n-Tetracosane	< 0.005		mg/kg wet	0.005						
n-Hexacosane	< 0.005		mg/kg wet	0.005						
n-Octacosane	< 0.005		mg/kg wet	0.005						
n-Triacontane	< 0.005		mg/kg wet	0.005						
n-Hexatriacontane	< 0.005		mg/kg wet	0.005						
Surrogate: 1-Chlorooctadecane	*2.15*		mg/kg wet		*3.33*		*65*	*50-150*		
LCS (1320928-BS1)						Prepared & Analyzed: 30-Aug-13				
C9-C36 Aliphatic Hydrocarbons	**89.6**		mg/kg wet	26.6	93.3		96	60-120		
Surrogate: 1-Chlorooctadecane	*2.52*		mg/kg wet		*3.33*		*76*	*50-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320707 - SW846 3050B										
Blank (1320707-BLK1)					Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Arsenic	< 1.41		mg/kg wet	1.41						
Lead	< 1.41		mg/kg wet	1.41						
Chromium	< 0.938		mg/kg wet	0.938						
Cadmium	< 0.469		mg/kg wet	0.469						
Silver	< 1.41		mg/kg wet	1.41						
Selenium	< 1.41		mg/kg wet	1.41						
Barium	< 0.938		mg/kg wet	0.938						
Duplicate (1320707-DUP1)			**Source: SB75690-16**		Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Cadmium	< 2.66	R01, D	mg/kg dry	2.66		BRL				20
Silver	**3.22**	J,QR9, R01, D	mg/kg dry	7.97		13.4			123	20
Chromium	**8.10**	QR6, R01, D	mg/kg dry	5.31		5.58			37	20
Lead	**44.0**	QR6, R01, D	mg/kg dry	7.97		126			97	20
Selenium	< 7.97	R01, D	mg/kg dry	7.97		BRL				20
Arsenic	< 7.97	R01, D	mg/kg dry	7.97		BRL				20
Barium	**60.9**	R01, D	mg/kg dry	5.31		57.2			6	20
Matrix Spike (1320707-MS1)			**Source: SB75690-16**		Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Arsenic	**141**	D	mg/kg dry	8.58	143	BRL	98	75-125		
Selenium	**139**	D	mg/kg dry	8.58	143	BRL	97	75-125		
Silver	**10.2**	QM8, D	mg/kg dry	8.58	143	13.4	-2	75-125		
Cadmium	**140**	D	mg/kg dry	2.86	143	BRL	98	75-125		
Lead	**171**	QM8, D	mg/kg dry	8.58	143	126	32	75-125		
Chromium	**157**	D	mg/kg dry	5.72	143	5.58	106	75-125		
Barium	**223**	D	mg/kg dry	5.72	143	57.2	116	75-125		
Matrix Spike Dup (1320707-MSD1)			**Source: SB75690-16**		Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Chromium	**148**	D	mg/kg dry	5.28	132	5.58	108	75-125	6	20
Selenium	**131**	D	mg/kg dry	7.92	132	BRL	99	75-125	6	20
Silver	**5.73**	QM8, QR9, D	mg/kg dry	7.92	132	13.4	-6	75-125	56	20
Arsenic	**133**	D	mg/kg dry	7.92	132	BRL	101	75-125	5	20
Cadmium	**132**	D	mg/kg dry	2.64	132	BRL	100	75-125	6	20
Lead	**160**	QM8, D	mg/kg dry	7.92	132	126	25	75-125	7	20
Barium	**210**	D	mg/kg dry	5.28	132	57.2	116	75-125	6	20
Post Spike (1320707-PS1)			**Source: SB75690-16**		Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Cadmium	**693**	D	mg/kg dry	2.79	698	BRL	99	80-120		
Arsenic	**709**	D	mg/kg dry	8.37	698	BRL	102	80-120		
Silver	**724**	D	mg/kg dry	8.37	698	13.4	102	80-120		
Selenium	**685**	D	mg/kg dry	8.37	698	BRL	98	80-120		
Chromium	**748**	D	mg/kg dry	5.58	698	5.58	106	80-120		
Lead	**816**	D	mg/kg dry	8.37	698	126	99	80-120		
Barium	**826**	D	mg/kg dry	5.58	698	57.2	110	80-120		
Reference (1320707-SRM1)					Prepared: 28-Aug-13 Analyzed: 30-Aug-13					
Chromium	**61.3**		mg/kg wet	1.00	70.3		87	80.14-120.9		
Arsenic	**44.5**		mg/kg wet	1.50	51.5		86	80.82-119.47		
Silver	**18.0**		mg/kg wet	1.50	20.9		86	75-124.75		
Cadmium	**83.4**		mg/kg wet	0.500	94.0		89	81.87-118.13		
Lead	**51.0**		mg/kg wet	1.50	59.4		86	81.83-119.13		
Selenium	**65.8**		mg/kg wet	1.50	77.5		85	77.73-122.67		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320707 - SW846 3050B										
Reference (1320707-SRM1)					Prepared: 28-Aug-13		Analyzed: 30-Aug-13			
Barium	**144**		mg/kg wet	1.00	160		90	83.22-116.77		
Reference (1320707-SRM2)					Prepared: 28-Aug-13		Analyzed: 30-Aug-13			
Silver	**17.1**		mg/kg wet	1.50	20.6		83	75-124.75		
Arsenic	**44.9**		mg/kg wet	1.50	50.7		88	80.82-119.47		
Cadmium	**83.5**		mg/kg wet	0.500	92.7		90	81.87-118.13		
Chromium	**60.8**		mg/kg wet	1.00	69.2		88	80.14-120.9		
Lead	**50.6**		mg/kg wet	1.50	58.5		86	81.83-119.13		
Selenium	**64.4**		mg/kg wet	1.50	76.4		84	77.73-122.67		
Barium	**143**		mg/kg wet	1.00	158		90	83.22-116.77		
Batch 1320708 - EPA200/SW7000 Series										
Blank (1320708-BLK1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	< 0.0272		mg/kg wet	0.0272						
Duplicate (1320708-DUP1)			**Source: SB75690-16**		Prepared: 28-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.394**	GS1, QR9, D	mg/kg dry	0.315		0.320			21	20
Matrix Spike (1320708-MS1)			**Source: SB75690-16**		Prepared: 28-Aug-13		Analyzed: 30-Aug-13			
Mercury	**1.28**	QM8, D	mg/kg dry	0.331	0.230	0.320	419	75-125		
Matrix Spike Dup (1320708-MSD1)			**Source: SB75690-16**		Prepared: 28-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.967**	QM8, QR9, D	mg/kg dry	0.329	0.228	0.320	283	75-125	28	20
Post Spike (1320708-PS1)			**Source: SB75690-16**		Prepared: 28-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.608**	D	mg/kg dry	0.348	0.242	0.320	119	80-120		
Reference (1320708-SRM1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	**6.67**	D	mg/kg wet	0.600	6.79		98	69.34-130.15		
Batch 1320709 - SW846 3005A										
Blank (1320709-BLK1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Selenium	< 0.0150		mg/l	0.0150						
Lead	< 0.0075		mg/l	0.0075						
Chromium	< 0.0050		mg/l	0.0050						
Cadmium	< 0.0025		mg/l	0.0025						
Barium	< 0.0050		mg/l	0.0050						
Arsenic	< 0.0040		mg/l	0.0040						
Silver	< 0.0050		mg/l	0.0050						
LCS (1320709-BS1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Silver	**1.19**		mg/l	0.0050	1.25		95	85-115		
Selenium	**1.24**		mg/l	0.0150	1.25		99	85-115		
Barium	**1.27**		mg/l	0.0050	1.25		102	85-115		
Arsenic	**1.23**		mg/l	0.0040	1.25		99	85-115		
Cadmium	**1.24**		mg/l	0.0025	1.25		99	85-115		
Lead	**1.25**		mg/l	0.0075	1.25		100	85-115		
Chromium	**1.25**		mg/l	0.0050	1.25		100	85-115		
LCS Dup (1320709-BSD1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Arsenic	**1.26**		mg/l	0.0040	1.25		101	85-115	2	20
Silver	**1.22**		mg/l	0.0050	1.25		98	85-115	3	20
Barium	**1.29**		mg/l	0.0050	1.25		103	85-115	2	20
Cadmium	**1.26**		mg/l	0.0025	1.25		101	85-115	2	20

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320709 - SW846 3005A										
LCS Dup (1320709-BSD1)					Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Chromium	**1.30**		mg/l	0.0050	1.25		104	85-115	4	20
Selenium	**1.27**		mg/l	0.0150	1.25		102	85-115	2	20
Lead	**1.28**		mg/l	0.0075	1.25		103	85-115	2	20
Duplicate (1320709-DUP1)			Source: SB75690-20		Prepared: 28-Aug-13 Analyzed: 29-Aug-13					
Lead	**0.0030**	J,QR8	mg/l	0.0075		0.0040			28	20
Arsenic	**0.0037**	J	mg/l	0.0040		0.0036			1	20
Silver	< 0.0050		mg/l	0.0050		BRL				20
Barium	**0.383**		mg/l	0.0050		0.375			2	20
Chromium	**0.0037**	J	mg/l	0.0050		0.0034			7	20
Selenium	< 0.0150		mg/l	0.0150		0.0042				20
Cadmium	< 0.0025		mg/l	0.0025		BRL				20

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320711 - EPA200/SW7000 Series										
Blank (1320711-BLK1)					Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Mercury	< 0.00020		mg/l	0.00020						
LCS (1320711-BS1)					Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Mercury	**0.00450**		mg/l	0.00020	0.00500		90	85-115		
Duplicate (1320711-DUP1)			**Source: SB75690-18**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Mercury	< 0.00020		mg/l	0.00020		BRL				20
Matrix Spike (1320711-MS1)			**Source: SB75690-18**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Mercury	**0.00446**		mg/l	0.00020	0.00500	BRL	89	80-120		
Matrix Spike Dup (1320711-MSD1)			**Source: SB75690-18**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Mercury	**0.00439**		mg/l	0.00020	0.00500	BRL	88	80-120	1	20
Post Spike (1320711-PS1)			**Source: SB75690-18**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Mercury	**0.00434**		mg/l	0.00020	0.00500	BRL	87	85-115		

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320825 - SW846 3010A										
Blank (1320825-BLK1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Chromium	< 0.0100		mg/l	0.0100						
Lead	< 0.0150		mg/l	0.0150						
Selenium	< 0.0300		mg/l	0.0300						
Arsenic	< 0.0080		mg/l	0.0080						
Cadmium	< 0.0050		mg/l	0.0050						
Silver	< 0.0100		mg/l	0.0100						
Barium	< 0.0100		mg/l	0.0100						
LCS (1320825-BS1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Lead	**2.52**		mg/l	0.0150	2.50		101	85-115		
Selenium	**2.59**		mg/l	0.0300	2.50		104	85-115		
Arsenic	**2.69**		mg/l	0.0080	2.50		108	85-115		
Chromium	**2.58**		mg/l	0.0100	2.50		103	85-115		
Cadmium	**2.65**		mg/l	0.0050	2.50		106	85-115		
Silver	**2.66**		mg/l	0.0100	2.50		107	85-115		
Barium	**2.68**		mg/l	0.0100	2.50		107	85-115		
LCS Dup (1320825-BSD1)					Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Silver	**2.58**		mg/l	0.0100	2.50		103	85-115	3	104
Arsenic	**2.48**		mg/l	0.0080	2.50		99	85-115	8	20
Cadmium	**2.51**		mg/l	0.0050	2.50		100	85-115	6	20
Chromium	**2.53**		mg/l	0.0100	2.50		101	85-115	2	20
Selenium	**2.41**		mg/l	0.0300	2.50		96	85-115	7	20
Lead	**2.42**		mg/l	0.0150	2.50		97	85-115	4	20
Barium	**2.54**		mg/l	0.0100	2.50		102	85-115	5	20
Duplicate (1320825-DUP1)			**Source: SB75690-21**		Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Selenium	< 0.0300		mg/l	0.0300		BRL				20
Lead	**0.0049**	J	mg/l	0.0150		BRL				20
Chromium	**0.0023**	J,QR8	mg/l	0.0100		0.0033			36	20
Cadmium	< 0.0050		mg/l	0.0050		BRL				20
Arsenic	**0.0031**	J,QR8	mg/l	0.0080		0.0043			32	20
Silver	< 0.0100		mg/l	0.0100		BRL				20
Barium	**0.537**		mg/l	0.0100		0.657			20	20
Matrix Spike (1320825-MS1)			**Source: SB75690-21**		Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Silver	**2.65**		mg/l	0.0100	2.50	BRL	106	75-125		
Arsenic	**2.60**		mg/l	0.0080	2.50	0.0043	104	75-125		
Cadmium	**2.60**		mg/l	0.0050	2.50	BRL	104	75-125		
Chromium	**2.62**		mg/l	0.0100	2.50	0.0033	105	75-125		
Selenium	**2.53**		mg/l	0.0300	2.50	BRL	101	75-125		
Lead	**2.51**		mg/l	0.0150	2.50	BRL	100	75-125		
Barium	**3.32**		mg/l	0.0100	2.50	0.657	107	75-125		
Matrix Spike Dup (1320825-MSD1)			**Source: SB75690-21**		Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Chromium	**2.75**		mg/l	0.0100	2.50	0.0033	110	75-125	5	20
Arsenic	**2.79**		mg/l	0.0080	2.50	0.0043	111	75-125	7	20
Cadmium	**2.49**		mg/l	0.0050	2.50	BRL	100	75-125	4	20
Lead	**2.41**		mg/l	0.0150	2.50	BRL	96	75-125	4	20
Selenium	**2.77**		mg/l	0.0300	2.50	BRL	111	75-125	9	20
Silver	**2.87**		mg/l	0.0100	2.50	BRL	115	75-125	8	20
Barium	**3.62**		mg/l	0.0100	2.50	0.657	118	75-125	9	20
Post Spike (1320825-PS1)			**Source: SB75690-21**		Prepared: 29-Aug-13 Analyzed: 30-Aug-13					
Chromium	**2.56**		mg/l	0.0100	2.50	0.0033	102	80-120		
Lead	**2.42**		mg/l	0.0150	2.50	BRL	97	80-120		
Cadmium	**2.49**		mg/l	0.0050	2.50	BRL	100	80-120		

TCLP Metals by EPA 1311 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320825 - SW846 3010A										
Post Spike (1320825-PS1)			**Source: SB75690-21**		Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Arsenic	**2.44**		mg/l	0.0080	2.50	0.0043	97	80-120		
Silver	**2.57**		mg/l	0.0100	2.50	BRL	103	80-120		
Selenium	**2.35**		mg/l	0.0300	2.50	BRL	94	80-120		
Barium	**3.19**		mg/l	0.0100	2.50	0.657	101	80-120		
Batch 1320826 - EPA200/SW7000 Series										
Blank (1320826-BLK1)					Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Mercury	< 0.00020		mg/l	0.00020						
LCS (1320826-BS1)					Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.00466**		mg/l	0.00020	0.00500		93	85-115		
Duplicate (1320826-DUP1)			**Source: SB75690-21**		Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Mercury	< 0.00020		mg/l	0.00020		BRL				20
Matrix Spike (1320826-MS1)			**Source: SB75690-21**		Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.00442**		mg/l	0.00020	0.00500	BRL	88	75-125		
Matrix Spike Dup (1320826-MSD1)			**Source: SB75690-21**		Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.00441**		mg/l	0.00020	0.00500	BRL	88	75-125	0.2	20
Post Spike (1320826-PS1)			**Source: SB75690-21**		Prepared: 29-Aug-13		Analyzed: 30-Aug-13			
Mercury	**0.00444**		mg/l	0.00020	0.00500	BRL	89	80-120		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320692 - SW846 3010A										
Blank (1320692-BLK1)					Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Chromium	< 0.0100		mg/l	0.0100						
Silver	< 0.0100		mg/l	0.0100						
Arsenic	< 0.0080		mg/l	0.0080						
Cadmium	< 0.0050		mg/l	0.0050						
Lead	< 0.0150		mg/l	0.0150						
Selenium	< 0.0300		mg/l	0.0300						
Barium	< 0.0100		mg/l	0.0100						
LCS (1320692-BS1)					Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Silver	**2.25**		mg/l	0.0100	2.50		90	85-115		
Selenium	**2.25**		mg/l	0.0300	2.50		90	85-115		
Lead	**2.38**		mg/l	0.0150	2.50		95	85-115		
Chromium	**2.38**		mg/l	0.0100	2.50		95	85-115		
Cadmium	**2.33**		mg/l	0.0050	2.50		93	85-115		
Arsenic	**2.30**		mg/l	0.0080	2.50		92	85-115		
Barium	**2.43**		mg/l	0.0100	2.50		97	85-115		
LCS Dup (1320692-BSD1)					Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Silver	**2.22**		mg/l	0.0100	2.50		89	85-115	1	20
Selenium	**2.20**		mg/l	0.0300	2.50		88	85-115	2	20
Lead	**2.34**		mg/l	0.0150	2.50		94	85-115	2	20
Chromium	**2.35**		mg/l	0.0100	2.50		94	85-115	1	20
Cadmium	**2.29**		mg/l	0.0050	2.50		92	85-115	2	20
Arsenic	**2.25**		mg/l	0.0080	2.50		90	85-115	2	20
Barium	**2.38**		mg/l	0.0100	2.50		95	85-115	2	20
Duplicate (1320692-DUP1)			**Source: SB75690-02**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Silver	< 0.0100		mg/l	0.0100		BRL				20
Chromium	**0.0017**	J	mg/l	0.0100		BRL				20
Arsenic	< 0.0080		mg/l	0.0080		BRL				20
Cadmium	< 0.0050		mg/l	0.0050		BRL				20
Selenium	< 0.0300		mg/l	0.0300		BRL				20
Lead	**0.0096**	J,QR8	mg/l	0.0150		0.0166			53	20
Barium	**0.0552**		mg/l	0.0100		0.0492			11	20
Matrix Spike (1320692-MS1)			**Source: SB75690-02**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Lead	**2.50**		mg/l	0.0150	2.50	0.0166	99	75-125		
Silver	**2.33**		mg/l	0.0100	2.50	BRL	93	75-125		
Chromium	**2.46**		mg/l	0.0100	2.50	BRL	98	75-125		
Cadmium	**2.44**		mg/l	0.0050	2.50	BRL	98	75-125		
Selenium	**2.37**		mg/l	0.0300	2.50	BRL	95	75-125		
Arsenic	**2.42**		mg/l	0.0080	2.50	BRL	97	75-125		
Barium	**2.59**		mg/l	0.0100	2.50	0.0492	102	75-125		
Matrix Spike Dup (1320692-MSD1)			**Source: SB75690-02**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Silver	**2.19**		mg/l	0.0100	2.50	BRL	88	75-125	6	20
Arsenic	**2.34**		mg/l	0.0080	2.50	BRL	94	75-125	3	20
Cadmium	**2.41**		mg/l	0.0050	2.50	BRL	96	75-125	1	20
Chromium	**2.38**		mg/l	0.0100	2.50	BRL	95	75-125	3	20
Lead	**2.42**		mg/l	0.0150	2.50	0.0166	96	75-125	3	20
Selenium	**2.29**		mg/l	0.0300	2.50	BRL	92	75-125	4	20
Barium	**2.47**		mg/l	0.0100	2.50	0.0492	97	75-125	5	20
Post Spike (1320692-PS1)			**Source: SB75690-02**		Prepared: 28-Aug-13	Analyzed: 29-Aug-13				
Cadmium	**2.48**		mg/l	0.0050	2.50	BRL	99	80-120		
Selenium	**2.34**		mg/l	0.0300	2.50	BRL	94	80-120		
Lead	**2.48**		mg/l	0.0150	2.50	0.0166	99	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320692 - SW846 3010A										
Post Spike (1320692-PS1)			**Source: SB75690-02**		Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Chromium	**2.48**		mg/l	0.0100	2.50	BRL	99	80-120		
Arsenic	**2.41**		mg/l	0.0080	2.50	BRL	96	80-120		
Silver	**2.34**		mg/l	0.0100	2.50	BRL	94	80-120		
Barium	**2.53**		mg/l	0.0100	2.50	0.0492	99	80-120		
Batch 1320693 - EPA200/SW7000 Series										
Blank (1320693-BLK1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	< 0.00020		mg/l	0.00020						
LCS (1320693-BS1)					Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	**0.00458**		mg/l	0.00020	0.00500		92	85-115		
Duplicate (1320693-DUP1)			**Source: SB75690-02**		Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	< 0.00020		mg/l	0.00020		0.00010				20
Matrix Spike (1320693-MS1)			**Source: SB75690-02**		Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	**0.00470**		mg/l	0.00020	0.00500	0.00010	92	75-125		
Matrix Spike Dup (1320693-MSD1)			**Source: SB75690-02**		Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	**0.00440**		mg/l	0.00020	0.00500	0.00010	86	75-125	7	20
Post Spike (1320693-PS1)			**Source: SB75690-02**		Prepared: 28-Aug-13		Analyzed: 29-Aug-13			
Mercury	**0.00477**		mg/l	0.00020	0.00500	0.00010	93	80-120		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320473 - General Preparation										
LCS (1320473-BS1)						Prepared & Analyzed: 27-Aug-13				
Specific Conductance (EC)	**1020**		uS/cm	10.0	1000		102	95-105		
Reference (1320473-SRM1)						Prepared & Analyzed: 27-Aug-13				
Specific Conductance (EC)	**201**		uS/cm	10.0	200		100	80-120		
Batch 1320630 - General Preparation										
Duplicate (1320630-DUP1)			**Source: SB75690-13**			Prepared & Analyzed: 27-Aug-13				
% Solids	**75.3**		%			76.8			2	20

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1320472 - General Preparation										
Reference (1320472-SRM1)					Prepared & Analyzed: 27-Aug-13					
pH	**6.03**		pH Units		6.00		100	97.5-102.5		
Reference (1320472-SRM2)					Prepared & Analyzed: 27-Aug-13					
pH	**6.01**		pH Units		6.00		100	97.5-102.5		
Batch 1320758 - General Preparation										
Reference (1320758-SRM1)					Prepared & Analyzed: 28-Aug-13					
Flashpoint	**79**		°F		81.0		98	95-105		

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S304818				
Initial Cal Check (S304818-ICV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.270728E+08	-2.8	30
n-Nonadecane	3.561546E+08	3.675153E+08	3.2	30
n-Nonane	3.732875E+08	3.681448E+08	-1.4	30
n-Decane	3.651436E+08	3.651315E+08	-0.003	30
n-Dodecane	3.48398E+08	3.592906E+08	3.1	30
n-Tetradecane	3.588449E+08	3.665299E+08	2.1	30
n-Hexadecane	3.756608E+08	3.74015E+08	-0.4	30
n-Octadecane	3.775606E+08	3.791863E+08	0.4	30
n-Eicosane	3.825055E+08	3.811256E+08	-0.4	30
n-Docosane	3.815533E+08	3.84155E+08	0.7	30
n-Tetracosane	3.82641E+08	3.839073E+08	0.3	30
n-Hexacosane	3.864596E+08	3.855051E+08	-0.2	30
n-Octacosane	3.839113E+08	3.752925E+08	-2.2	30
n-Triacontane	3.841358E+08	3.849129E+08	0.2	30
n-Hexatriacontane	3.752619E+08	3.758944E+08	0.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S306464				
Initial Cal Check (S306464-ICV1)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.595381E+08	3.0	30
n-Nonadecane	3.353948E+08	3.37716E+08	0.7	30
n-Nonane	3.350168E+08	3.313795E+08	-1.1	30
n-Decane	3.360605E+08	3.337294E+08	-0.7	30
n-Dodecane	3.365143E+08	3.362975E+08	-0.06	30
n-Tetradecane	3.376027E+08	3.356885E+08	-0.6	30
n-Hexadecane	3.442821E+08	3.382331E+08	-1.8	30
n-Octadecane	3.391093E+08	3.381322E+08	-0.3	30
n-Eicosane	3.378662E+08	3.365021E+08	-0.4	30
n-Docosane	3.35257E+08	3.381542E+08	0.9	30
n-Tetracosane	3.322211E+08	3.365853E+08	1.3	30
n-Hexacosane	3.327109E+08	3.358834E+08	1.0	30
n-Octacosane	3.278913E+08	3.249442E+08	-0.9	30
n-Triacontane	3.256576E+08	3.32436E+08	2.1	30
n-Hexatriacontane	3.14041E+08	3.184885E+08	1.4	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310376				
Calibration Check (S310376-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.026443E+08	-9.8	30
n-Nonadecane	3.561546E+08	3.41763E+08	-4.0	30
n-Nonane	3.732875E+08	3.187541E+08	-14.6	30
n-Decane	3.651436E+08	3.192389E+08	-12.6	30
n-Dodecane	3.48398E+08	3.164274E+08	-9.2	30
n-Tetradecane	3.588449E+08	3.251672E+08	-9.4	30
n-Hexadecane	3.756608E+08	3.373309E+08	-10.2	30
n-Octadecane	3.775606E+08	3.431628E+08	-9.1	30
n-Eicosane	3.825055E+08	3.44762E+08	-9.9	30
n-Docosane	3.815533E+08	3.429994E+08	-10.1	30
n-Tetracosane	3.82641E+08	3.408818E+08	-10.9	30
n-Hexacosane	3.864596E+08	3.395058E+08	-12.1	30
n-Octacosane	3.839113E+08	3.313797E+08	-13.7	30
n-Triacontane	3.841358E+08	3.266826E+08	-15.0	30
n-Hexatriacontane	3.752619E+08	3.115433E+08	-17.0	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310376				
Calibration Check (S310376-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	3.954176E+08	-11.9	30
n-Nonadecane	3.561546E+08	3.616034E+08	1.5	30
n-Nonane	3.732875E+08	3.360676E+08	-10.0	30
n-Decane	3.651436E+08	3.376226E+08	-7.5	30
n-Dodecane	3.48398E+08	3.351332E+08	-3.8	30
n-Tetradecane	3.588449E+08	3.44429E+08	-4.0	30
n-Hexadecane	3.756608E+08	3.566313E+08	-5.1	30
n-Octadecane	3.775606E+08	3.637218E+08	-3.7	30
n-Eicosane	3.825055E+08	3.665042E+08	-4.2	30
n-Docosane	3.815533E+08	3.62935E+08	-4.9	30
n-Tetracosane	3.82641E+08	3.592623E+08	-6.1	30
n-Hexacosane	3.864596E+08	3.571106E+08	-7.6	30
n-Octacosane	3.839113E+08	3.490548E+08	-9.1	30
n-Triacontane	3.841358E+08	3.439838E+08	-10.5	30
n-Hexatriacontane	3.752619E+08	3.259398E+08	-13.1	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310400				
Calibration Check (S310400-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.475762E+08	3.1	30
n-Nonadecane	3.561546E+08	3.691325E+08	3.6	30
n-Nonane	3.732875E+08	3.423964E+08	-8.3	30
n-Decane	3.651436E+08	3.448692E+08	-5.6	30
n-Dodecane	3.48398E+08	3.422447E+08	-1.8	30
n-Tetradecane	3.588449E+08	3.521886E+08	-1.9	30
n-Hexadecane	3.756608E+08	3.635751E+08	-3.2	30
n-Octadecane	3.775606E+08	3.70776E+08	-1.8	30
n-Eicosane	3.825055E+08	3.744129E+08	-2.1	30
n-Docosane	3.815533E+08	3.72282E+08	-2.4	30
n-Tetracosane	3.82641E+08	3.701486E+08	-3.3	30
n-Hexacosane	3.864596E+08	3.692696E+08	-4.4	30
n-Octacosane	3.839113E+08	3.610992E+08	-5.9	30
n-Triacontane	3.841358E+08	3.574256E+08	-7.0	30
n-Hexatriacontane	3.752619E+08	3.417602E+08	-8.9	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310400				
Calibration Check (S310400-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.108746E+08	-7.4	30
n-Nonadecane	3.561546E+08	3.284046E+08	-7.8	30
n-Nonane	3.732875E+08	3.01176E+08	-19.3	30
n-Decane	3.651436E+08	3.007596E+08	-17.6	30
n-Dodecane	3.48398E+08	2.984281E+08	-14.3	30
n-Tetradecane	3.588449E+08	3.077856E+08	-14.2	30
n-Hexadecane	3.756608E+08	3.212753E+08	-14.5	30
n-Octadecane	3.775606E+08	3.288452E+08	-12.9	30
n-Eicosane	3.825055E+08	3.318162E+08	-13.3	30
n-Docosane	3.815533E+08	3.303063E+08	-13.4	30
n-Tetracosane	3.82641E+08	3.329537E+08	-13.0	30
n-Hexacosane	3.864596E+08	3.340559E+08	-13.6	30
n-Octacosane	3.839113E+08	3.291131E+08	-14.3	30
n-Triacontane	3.841358E+08	3.255634E+08	-15.2	30
n-Hexatriacontane	3.752619E+08	3.146076E+08	-16.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310433				
Calibration Check (S310433-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.108746E+08	-7.4	30
n-Nonadecane	3.561546E+08	3.284046E+08	-7.8	30
n-Nonane	3.732875E+08	3.01176E+08	-19.3	30
n-Decane	3.651436E+08	3.007596E+08	-17.6	30
n-Dodecane	3.48398E+08	2.984281E+08	-14.3	30
n-Tetradecane	3.588449E+08	3.077856E+08	-14.2	30
n-Hexadecane	3.756608E+08	3.212753E+08	-14.5	30
n-Octadecane	3.775606E+08	3.288452E+08	-12.9	30
n-Eicosane	3.825055E+08	3.318162E+08	-13.3	30
n-Docosane	3.815533E+08	3.303063E+08	-13.4	30
n-Tetracosane	3.82641E+08	3.329537E+08	-13.0	30
n-Hexacosane	3.864596E+08	3.340559E+08	-13.6	30
n-Octacosane	3.839113E+08	3.291131E+08	-14.3	30
n-Triacontane	3.841358E+08	3.255634E+08	-15.2	30
n-Hexatriacontane	3.752619E+08	3.146076E+08	-16.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310433				
Calibration Check (S310433-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.005651E+08	-10.4	30
n-Nonadecane	3.561546E+08	3.499118E+08	-1.8	30
n-Nonane	3.732875E+08	3.180929E+08	-14.8	30
n-Decane	3.651436E+08	3.218224E+08	-11.9	30
n-Dodecane	3.48398E+08	3.225519E+08	-7.4	30
n-Tetradecane	3.588449E+08	3.288658E+08	-8.4	30
n-Hexadecane	3.756608E+08	3.408387E+08	-9.3	30
n-Octadecane	3.775606E+08	3.503723E+08	-7.2	30
n-Eicosane	3.825055E+08	3.545427E+08	-7.3	30
n-Docosane	3.815533E+08	3.540888E+08	-7.2	30
n-Tetracosane	3.82641E+08	3.576876E+08	-6.5	30
n-Hexacosane	3.864596E+08	3.594525E+08	-7.0	30
n-Octacosane	3.839113E+08	3.54321E+08	-7.7	30
n-Triacontane	3.841358E+08	3.510664E+08	-8.6	30
n-Hexatriacontane	3.752619E+08	3.353705E+08	-10.6	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310437				
Calibration Check (S310437-CCV1)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.475762E+08	3.1	30
n-Nonadecane	3.561546E+08	3.691325E+08	3.6	30
n-Nonane	3.732875E+08	3.423964E+08	-8.3	30
n-Decane	3.651436E+08	3.448692E+08	-5.6	30
n-Dodecane	3.48398E+08	3.422447E+08	-1.8	30
n-Tetradecane	3.588449E+08	3.521886E+08	-1.9	30
n-Hexadecane	3.756608E+08	3.635751E+08	-3.2	30
n-Octadecane	3.775606E+08	3.70776E+08	-1.8	30
n-Eicosane	3.825055E+08	3.744129E+08	-2.1	30
n-Docosane	3.815533E+08	3.72282E+08	-2.4	30
n-Tetracosane	3.82641E+08	3.701486E+08	-3.3	30
n-Hexacosane	3.864596E+08	3.692696E+08	-4.4	30
n-Octacosane	3.839113E+08	3.610992E+08	-5.9	30
n-Triacontane	3.841358E+08	3.574256E+08	-7.0	30
n-Hexatriacontane	3.752619E+08	3.417602E+08	-8.9	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310437				
Calibration Check (S310437-CCV2)				
C9-C36 Aliphatic Hydrocarbons	6.238149E+08	4.108746E+08	-7.4	30
n-Nonadecane	3.561546E+08	3.284046E+08	-7.8	30
n-Nonane	3.732875E+08	3.01176E+08	-19.3	30
n-Decane	3.651436E+08	3.007596E+08	-17.6	30
n-Dodecane	3.48398E+08	2.984281E+08	-14.3	30
n-Tetradecane	3.588449E+08	3.077856E+08	-14.2	30
n-Hexadecane	3.756608E+08	3.212753E+08	-14.5	30
n-Octadecane	3.775606E+08	3.288452E+08	-12.9	30
n-Eicosane	3.825055E+08	3.318162E+08	-13.3	30
n-Docosane	3.815533E+08	3.303063E+08	-13.4	30
n-Tetracosane	3.82641E+08	3.329537E+08	-13.0	30
n-Hexacosane	3.864596E+08	3.340559E+08	-13.6	30
n-Octacosane	3.839113E+08	3.291131E+08	-14.3	30
n-Triacontane	3.841358E+08	3.255634E+08	-15.2	30
n-Hexatriacontane	3.752619E+08	3.146076E+08	-16.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310443				
Calibration Check (S310443-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.921648E+08	13.9	30
n-Nonadecane	3.353948E+08	2.88996E+08	-13.8	30
n-Nonane	3.350168E+08	2.866157E+08	-14.4	30
n-Decane	3.360605E+08	2.858328E+08	-14.9	30
n-Dodecane	3.365143E+08	2.826984E+08	-16.0	30
n-Tetradecane	3.376027E+08	2.835991E+08	-16.0	30
n-Hexadecane	3.442821E+08	2.8738E+08	-16.5	30
n-Octadecane	3.391093E+08	2.884417E+08	-14.9	30
n-Eicosane	3.378662E+08	2.912681E+08	-13.8	30
n-Docosane	3.35257E+08	2.86948E+08	-14.4	30
n-Tetracosane	3.322211E+08	2.849333E+08	-14.2	30
n-Hexacosane	3.327109E+08	2.852271E+08	-14.3	30
n-Octacosane	3.278913E+08	2.831219E+08	-13.7	30
n-Triacontane	3.256576E+08	2.825884E+08	-13.2	30
n-Hexatriacontane	3.14041E+08	2.805591E+08	-10.7	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310443				
Calibration Check (S310443-CCV4)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.853876E+08	11.6	30
n-Nonadecane	3.353948E+08	2.874307E+08	-14.3	30
n-Nonane	3.350168E+08	2.799988E+08	-16.4	30
n-Decane	3.360605E+08	2.789375E+08	-17.0	30
n-Dodecane	3.365143E+08	2.747461E+08	-18.4	30
n-Tetradecane	3.376027E+08	2.760747E+08	-18.2	30
n-Hexadecane	3.442821E+08	2.82106E+08	-18.1	30
n-Octadecane	3.391093E+08	2.866135E+08	-15.5	30
n-Eicosane	3.378662E+08	2.910178E+08	-13.9	30
n-Docosane	3.35257E+08	2.87927E+08	-14.1	30
n-Tetracosane	3.322211E+08	2.871933E+08	-13.6	30
n-Hexacosane	3.327109E+08	2.89608E+08	-13.0	30
n-Octacosane	3.278913E+08	2.868368E+08	-12.5	30
n-Triacontane	3.256576E+08	2.8672E+08	-12.0	30
n-Hexatriacontane	3.14041E+08	2.840708E+08	-9.5	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310443				
Calibration Check (S310443-CCV6)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.958704E+08	15.2	30
n-Nonadecane	3.353948E+08	2.954934E+08	-11.9	30
n-Nonane	3.350168E+08	2.887114E+08	-13.8	30
n-Decane	3.360605E+08	2.879886E+08	-14.3	30
n-Dodecane	3.365143E+08	2.835995E+08	-15.7	30
n-Tetradecane	3.376027E+08	2.84758E+08	-15.7	30
n-Hexadecane	3.442821E+08	2.902652E+08	-15.7	30
n-Octadecane	3.391093E+08	2.939267E+08	-13.3	30
n-Eicosane	3.378662E+08	2.982544E+08	-11.7	30
n-Docosane	3.35257E+08	2.950048E+08	-12.0	30
n-Tetracosane	3.322211E+08	2.936876E+08	-11.6	30
n-Hexacosane	3.327109E+08	2.951692E+08	-11.3	30
n-Octacosane	3.278913E+08	2.923727E+08	-10.8	30
n-Triacontane	3.256576E+08	2.920835E+08	-10.3	30
n-Hexatriacontane	3.14041E+08	2.88594E+08	-8.1	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310517				
Calibration Check (S310517-CCV2)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	4.01326E+08	17.0	30
n-Nonadecane	3.353948E+08	3.175743E+08	-5.3	30
n-Nonane	3.350168E+08	3.082898E+08	-8.0	30
n-Decane	3.360605E+08	3.090514E+08	-8.0	30
n-Dodecane	3.365143E+08	3.030557E+08	-9.9	30
n-Tetradecane	3.376027E+08	3.037919E+08	-10.0	30
n-Hexadecane	3.442821E+08	3.115615E+08	-9.5	30
n-Octadecane	3.391093E+08	3.162156E+08	-6.8	30
n-Eicosane	3.378662E+08	3.221362E+08	-4.7	30
n-Docosane	3.35257E+08	3.2105E+08	-4.2	30
n-Tetracosane	3.322211E+08	3.222127E+08	-3.0	30
n-Hexacosane	3.327109E+08	3.258849E+08	-2.1	30
n-Octacosane	3.278913E+08	3.247904E+08	-0.9	30
n-Triacontane	3.256576E+08	3.224545E+08	-1.0	30
n-Hexatriacontane	3.14041E+08	3.099369E+08	-1.3	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310517				
Calibration Check (S310517-CCV4)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.621833E+08	3.9	30
n-Nonadecane	3.353948E+08	3.004002E+08	-10.4	30
n-Nonane	3.350168E+08	2.903052E+08	-13.3	30
n-Decane	3.360605E+08	2.900067E+08	-13.7	30
n-Dodecane	3.365143E+08	2.844947E+08	-15.5	30
n-Tetradecane	3.376027E+08	2.884762E+08	-14.6	30
n-Hexadecane	3.442821E+08	2.944524E+08	-14.5	30
n-Octadecane	3.391093E+08	2.987263E+08	-11.9	30
n-Eicosane	3.378662E+08	3.031646E+08	-10.3	30
n-Docosane	3.35257E+08	2.975056E+08	-11.3	30
n-Tetracosane	3.322211E+08	2.985231E+08	-10.1	30
n-Hexacosane	3.327109E+08	2.986135E+08	-10.2	30
n-Octacosane	3.278913E+08	2.948761E+08	-10.1	30
n-Triacontane	3.256576E+08	2.919459E+08	-10.4	30
n-Hexatriacontane	3.14041E+08	2.778049E+08	-11.5	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310517				
Calibration Check (S310517-CCV6)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.438514E+08	-2.3	30
n-Nonadecane	3.353948E+08	2.773102E+08	-17.3	30
n-Nonane	3.350168E+08	2.658038E+08	-20.7	30
n-Decane	3.360605E+08	2.661686E+08	-20.8	30
n-Dodecane	3.365143E+08	2.610889E+08	-22.4	30
n-Tetradecane	3.376027E+08	2.639112E+08	-21.8	30
n-Hexadecane	3.442821E+08	2.700992E+08	-21.5	30
n-Octadecane	3.391093E+08	2.750422E+08	-18.9	30
n-Eicosane	3.378662E+08	2.818095E+08	-16.6	30
n-Docosane	3.35257E+08	2.812231E+08	-16.1	30
n-Tetracosane	3.322211E+08	2.840174E+08	-14.5	30
n-Hexacosane	3.327109E+08	2.883365E+08	-13.3	30
n-Octacosane	3.278913E+08	2.877651E+08	-12.2	30
n-Triacontane	3.256576E+08	2.867733E+08	-11.9	30
n-Hexatriacontane	3.14041E+08	2.78977E+08	-11.2	30

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S310519				
Calibration Check (S310519-CCV1)				
C9-C36 Aliphatic Hydrocarbons	4.461755E+08	3.770665E+08	8.9	30
n-Nonadecane	3.353948E+08	3.094413E+08	-7.7	30
n-Nonane	3.350168E+08	3.088504E+08	-7.8	30
n-Decane	3.360605E+08	3.072448E+08	-8.6	30
n-Dodecane	3.365143E+08	3.017317E+08	-10.3	30
n-Tetradecane	3.376027E+08	3.008462E+08	-10.9	30
n-Hexadecane	3.442821E+08	3.044349E+08	-11.6	30
n-Octadecane	3.391093E+08	3.075995E+08	-9.3	30
n-Eicosane	3.378662E+08	3.135946E+08	-7.2	30
n-Docosane	3.35257E+08	3.122145E+08	-6.9	30
n-Tetracosane	3.322211E+08	3.13347E+08	-5.7	30
n-Hexacosane	3.327109E+08	3.177272E+08	-4.5	30
n-Octacosane	3.278913E+08	3.167532E+08	-3.4	30
n-Triacontane	3.256576E+08	3.169345E+08	-2.7	30
n-Hexatriacontane	3.14041E+08	3.083304E+08	-1.8	30

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
P	Difference between the two GC columns is greater than 40%.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R01	The Reporting Limit has been raised to account for matrix interference.
R02	Elevated Reporting Limits due to limited sample volume.
S01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
VOC8	Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly Wisk
Rebecca Merz

SP75690 RH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 5

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5day 8/30/13
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: HRP Associates Inc
197 Scott Swamp Rd
Farmington CT 06032
Telephone #: 860-674-9570
Project Mgr. Walt Sepelak

Invoice To: Same
P.O. No.: RQN:

Project No.: CTD3002.21
Site Name: CT-DOT Replacement of Bridge 01379
Location: Rte 150 Wallingford State: CT
Sampler(s): BE

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ICED 12=

List preservative code below: 7,1 | 11

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs 8260/5035	PAHs	SVOCs	ETPH	8 RCRA Metals (total & SPLP)	PCBs		
SP75690-01	GP-1 (1.5-3.5')	8/22/13	12:03	G	SO	3	2			X	X		X	X	X		5035 vials Frozen
-02	GP-2 (1.5-3.5')		10:44							X	X		X	X			on 8/23/13 @ 7:00 Am
-03	GP-3 (1.5-3.5')		12:03							X	X		X	X	X		
-04	GP-4 (5-7')		2:39							X			X	X			
-05	GP-5 (3.5')		1:08								X		X	X			
-06	GP-6 (10-12.5')		10:21			3				X	X		X		X		
-07	GP-7 (8-10')		9:53							X	X		X	X	X		
-08	GP-9 (5-7')		8:30							X	X			X			
-09	GP-10 (2-4')		9:28							X	X		X	X			
-10	GP-11 (1.5-3.5')		1:45							X	X		X	X			

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other

State-specific reporting standards:

/ / IR

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DBC	[illegible]	8/23/13	1:10	
DBC	Tampa K	8-23-13	1600	

☒ EDD Format
☒ E-mail to Jenny.Mooney@HRPAssociates.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

1.2 / -1 / 0.2 IR01

SB75690R4

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 5

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5day 8/30/13
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: HRP Associates
197 Scott Swamp Rd
Farmington CT 06032

Telephone #: 860-674-9570
Project Mgr. Walt Sepelak

Invoice To: Same

P.O. No.: ____ RQN: 5334

Project No.: CTD3002.21
Site Name: CT DOT - Replacement of Bridge 01379
Location: Rte 150 Wallingford State: CT
Sampler(s): BE

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ICED 12= ____

List preservative code below: 11 — 12

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= Trip blank X2= ____ X3= ____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		PAHs	ETPH	8RCRA metals (Total, Splp)	VOC's 8260B				
SB75690-11	GP-12 (2-4)	8/22/13	9:28	G	SO		2				X	X	X					
↓ -12	TB-1	↓	7:00am	G	X1	2								X				

Containers: # of VOA Vials, # of Amber Glass, # of Clear Glass, # of Plastic
Analyses: PAHs, ETPH, 8RCRA metals (Total, Splp), VOC's 8260B

QA/QC Reporting Notes:
* additional charges may apply

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other ____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	DEC	8/23/13	1:10	
DEC	[signature]	8/23/13	16:00	

☒ EDD Format ____
☒ E-mail to Jenny.Mooney@HRPAssociates.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

12/-1/02 IR01

SB75690RA

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 4

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: Friday 8/30/13
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: HRP Associates
197 Scott Swamp Rd
Farmington CT 06032

Telephone #: 800-674-9570
Project Mgr. Walt Sepelak

Invoice To: SAME

P.O. No.: ____ RQN: ____

Project No.: CTD3002.21
Site Name: CT-DOT- Replacement of Bridge 01379
Location: Rte 150 Wallingford State: CT
Sampler(s): BE

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8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ICED 12= ____

List preservative code below: 7,9 | 11 → 7,2 | 11,4

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= DI water X2= ____ X3= ____

G=Grab C=Composite

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other ____

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOC's 8260B/5035	PAH's	SVOC's 8270	ETPH	8 RCRA metals Total, SPLP	PCB's	VOC's 8260B	8 RCRA Metals Total Only	State-specific reporting standards
SB75690-13	SED-1 (0.5-1.5)	8-22-13	7:15	G	SO	3	2				X	X		X	X	X			5035 VOC's vials
-14	SED-2 (0.5-1.5)	↓	2:45	↓	↓	↓	↓				X	X		X	X				Frozen on 8/23/13
-15	SED-3 (1-2')		7:55								X	X		X	X				@ 7:00 am
-16	SED-4 (0-1')		7:23								X	X		X	X	X			
-17	EB-1	8-22-13	8:40		X-1		4		1			X		X		X	X	X	

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Billy	DC	8/23/13	1:10	
DC	Tamyatt	8/23/13	16:00	

☐ EDD Format ____
☐ E-mail to ____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

1.2/1.6.2 IR.01

SB75690 Rn

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 4 of 4

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: Friday 8/30/13
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- Samples disposed of after 60 days unless otherwise instructed.

Report To: HRP Associates Inc
197 Scott Swamp Rd
Farmington CT 06032

Telephone #: 860-674-9570
Project Mgr. Walt Sepelak

Invoice To: Same

P.O. No.: RQN: 5334

Project No.: CTD3002.21
Site Name: CT DOT - Replacement of Bridge 01379
Location: Rte 150 Wallingford State: CT
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1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ICED 12= _____

List preservative code below: 2,11 | 11 → 7,4

QA/QC Reporting Notes:
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O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC's 8260D	PAH's	ETPH	8 RCRA metals Total				
SB75690-18	GP-4/MW-1	8-22-13	2:39	G	GW	3	1		1	X		X	X				
-19	GP-11/MW-3	↓	1:48	↓	↓	↓	3		1	↓	X	X	↓				
-20	GP-8/MW-2	↓	1:33	↓	↓	↓	3		1	↓	X	X	↓				

Analyses:

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other _____

State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	8/23/13	1:10	
[signature]	[signature]	8/23/13	16:00	

☒ EDD Format _____
☒ E-mail to Venny.Moore@HRPAssociates.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

1.2/-1/0.2 IR01

SB75690 M

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 5 of 5

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5day 8/30/13
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Report To: HRP Associates
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Farmington CT 06032

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8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ICED 12= ____

List preservative code below: 7,9 11

QA/QC Reporting Notes:
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X1= ____ X2= ____ X3= ____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOC's 8260B/5035	BaH's	SVOC's	ETPH	8 RCRA metals (total TCLP)	pH, Flashpoint, Conductivity	PCB's	State-specific reporting standards:
SB75690-21	WCS-1	8/22/13	1:29	C	SO	3	2				X		X	X	X	X	X	X	5035 vials frozen
-22	WCS-2	↓	3:03	↓	↓	↓	↓				X		X	X	X	X	X	X	on 8/23/13 @ 7:00 Am

MA DEP MCP CAM Report: Yes☐ No☐
CT DPH RCP Report: Yes☒ No☐

QA/QC Reporting Level
☐ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER IV*
☐ Other ____

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	8/23/13	1:10	
[signature]	Tammark	8/23/13	16:00	

☐ EDD Format ____
☐ E-mail to Jenny.Mooney@HRPAssociates.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

12/-1/0.2 R01