PHASE II
ENVIRONMENTAL SITE ASSESSMENT

Beacon Correctional Facility
50 Camp Beacon Road
Beacon, New York

January 8, 2014
HRP # NEW7426.P2

Prepared for:

NYSDOCCS FP&D
1220 Washington Avenue
Albany, NY 12226-2050
OGS # S5339, Project SA243, Work Order 44
Spill # 13-08885
This report is true and accurate to the best of the undersigned consultant's knowledge

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

NYSDOCCS Beacon
50 Camp Beacon Road
Beacon, New York

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

Beacon Correctional Facility
6100 School Road
Rome, New York

1.0 SUMMARY

In October 2013, HRP Associates, Inc. (HRP) was retained to complete a Phase II Environmental Site Assessment (Phase II ESA) of the subject property, NYSDOCCS Beacon, located at 50 Camp Beacon Road in Beacon, Duchess County, New York (Figures 1-2). The proposed Phase II ESA included the installation of twenty-four soil borings, one of which was converted into a temporary monitoring well and the collection and analysis of select soil and groundwater samples. The remainder of this letter discusses the project background, field activities, findings/conclusions, as well as, HRP's recommendations.

2.0 BACKGROUND

HRP completed a Phase I Environmental Site Assessment of the subject property, NYSDOCCS Beacon, located at 50 Camp Beacon Road in Beacon, New York in September 2013 for the NYSDOCCS. The following data gap was identified which interfered with HRP's ability to identify recognized environmental condition (REC) in connection with the subject site:

- A number of ASTs/USTs formally existed on the subject property that have been closed/removed, however, no closure documentation of the six former USTs (i.e. soil and/or groundwater sampling) was available for HRP's review.

Based on the findings, HRP suggested a Phase II investigation be conducted, which was authorized by NYSDOCCS in November 2013. The Phase II investigation was conducted to determine the following:

- The locations of former USTs and/or tank graves; and
- If historical use of USTs G11, G10, GR5, HU4, HU5 and HU1 have impacted the subject site's underlying soils and/or groundwater.

3.0 FIELD ACTIVITIES

3.1 Utility Markout

Prior to conducting any intrusive subsurface activities, HRP contacted the Underground Facilities Protection Organization who completed a utility mark out of the site (ticket # 11-113-139). All utilities were cleared prior to the commencement of field activities.

3.2 Ground Penetrating Radar Survey

In order to confirm the locations of the former USTs and to clear boring locations of underground utilities HRP conducted a ground penetrating radar (GPR) survey. The GPR survey was conducted on the area of historic USTs G11, G10, GR5, HU4, HU5 and HU1. Areas included in the GPR survey are depicted on Figure 2.

The GPR survey was conducted by Subsurface Informational Survey, Inc. (SIS) on November 13, 2013. GPR is a non-destructive and non-intrusive geophysical exploration technique that uses radar waves to detect subsurface objects, such as tanks, fill lines and return lines. The GPR is also capable of detecting discontinuities in the subsurface materials indicative of excavated and backfilled areas, such as those associated with possible UST graves.

A Subsurface Interface Radar System (SIR-3000), manufactured by Geophysical Survey Systems Inc., coupled with a 400 MHz antenna was used to provide real time data during the survey. The unit was equipped with a model #38 video display microprocessor controlled module. This module converted the Subsurface Interface Radar data to a color video which is displayed on a self-contained monitor.

Locations for the GPR survey were based on the reported locations of historic USTs, from interviews with site personnel and observations in the field. All anomalies identified during the GRP survey were marked out in the field.

Results of the GPR survey are discussed in Section 4.0 and the GPR survey report is included as Attachment #1.

3.3 Subsurface Investigation – Soil Borings

To evaluate the condition of site soils and groundwater, HRP and Zebra Environmental (Zebra) mobilized to the site on November 14, 2013 and installed a total of twenty-four soil borings (referred to as SB-1 through SB-24), and collected representative soil and groundwater samples using an track-mounted Geoprobe unit. Based on HRP's Phase I ESA findings, soil borings and groundwater sampling locations were completed in the areas of the former USTs. The specific locations of each boring were determined based on the GPR survey, field observations and the presumed direction of groundwater flow.

The soil boring and groundwater sampling locations are shown on Figure 2 and are summarized below.

Soil Boring ID	Boring Locations
SB-1 through SB-4	In area of the grave of historic UST G11 located southeast of the Maintenance Building.
SB-5 through SB-12	In area of the reported locations of historic USTs G10 and GR5 located north of the Greenhouse.

Soil Boring ID	Boring Locations
SB-13 through SB-16	In the area of the reported location of UST HU4, around AST 6, east of Building 6.
SB-17 through SB-20	In the area of the reported location of UST HU5, around AST 7, east of Building 7.
SB-21 through SB-24	In the area of UST HU1, north of the Camp Beacon Housing Unit, in area of detected UST HU1

During the subsurface investigation composite soil samples were collected by advancing a five foot long Macro Core sampler. Upon collection, each soil sample was examined in the field for physical evidence of contamination (i.e., odor, staining) and subjected to a headspace analysis for the presence of gross volatile organics via a photoionization detector (PID) equipped with a 10.6 eV bulb. The collected soil samples were placed in a labeled jar, and stored on ice in a cooler for preservation. Decontamination procedures (i.e., wash with soap and tap water) were employed between samplings to minimize cross-contamination. Each soil boring was backfilled with the removed soil and/or bentonite chips upon completion of soil/groundwater sampling. Soil boring logs describing the geologic conditions and PID screening results were maintained in the field, and are included in Attachment #2.

Based upon sample location and observation the following soil samples were collected for laboratory analysis:

Sample ID	Sample Depth (ft bg)	Sample Justification
SB-3	6-7	Suspected location of historic UST-G11, sample collected from below the fill layer.
SB-4	3-4	Presumably downgradient of historic UST–G11, sample collected from black discoloration/fill (trace brick).
SB-6	4-5	Presumably downgradient of historic USTs G10 and GR5 & deepest accessible sample (refusal).
SB-8	4-4.5	Presumably downgradient of historic USTs G10 and GR5. Slight discoloration/fill.
SB-10	1-1.5	Presumably crossgradient of historic USTs G10 and GR5. Slag observed in soil.
SB-12	1.5-3	Presumably upgradient of historic USTs G10 and GR5. Slag/brick observed in soil.
SB-13	8-10	Presumably downgradient of historic UST-HU4 & at presumed depth of UST base.
SB-16	8-9	Presumably downgradient of historic UST-HU4 & at presumed depth of UST base.
SB-17	5-6	Presumably downgradient of historic UST-HU5 & at presumed midpoint of UST.
SB-20	8-9	Presumably downgradient of historic

Sample ID	Sample Depth (ft bg)	Sample Justification
		UST-HU5 & at presumed depth of UST base.
SB-21	(9-10)	Presumably upgradient of UST-HU1, fuel oil odor and staining observed on sample.
SB-22	(0-3)	In location of UST-HU1, collected with hand auger at deepest accessible depth and black staining (trace brick).
SB-23	(10-10.5)	Presumably crossgradient of UST-HU1 & at presumed depth of UST base.

SB = Soil boring
bg = below grade

The soil samples were analyzed for Volatile Organic Compounds (VOCs) via USEPA Method 8260B, STARS Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270C and RCRA 8 Metals via USEPA 6000/7000 series methods.

3.4 Site Investigation - Groundwater Sampling

To screen groundwater quality beneath the subject property, a grab groundwater sample was collected from one of the twenty-four soil borings. After the installation of the soil borings a one inch diameter #10-slotted PVC pipe and solid riser was installed into the soil boring and allowed to fill with groundwater. It should be noted that HRP's Phase II proposal included the collection of six groundwater samples, however, groundwater was only encountered at one soil boring location.

The groundwater sample was collected using new polyethylene tubing and a peristaltic pump. The groundwater sample was collected into appropriate laboratory supplied containers and stored on ice in a cooler. The following groundwater sample was submitted for laboratory analysis:

Sample ID	Sample Justification
SB-12	Presumably upgradient of historic USTs G10 and GR5. The only location groundwater was encountered.

SB = Soil boring

The groundwater sample was analyzed for VOCs via USEPA Method 8260B, STARS SVOCs via USEPA Method 8270C and RCRA 8 Metals via USEPA 6000/7000 series methods.

4.0 FINDINGS

4.1 Ground Penetrating Radar

Results of the GPR survey are provided below and included as Attachment #1. Five areas were investigated with GPR:

Maintenance Building/UST-G11:

A GPR survey was conducted southeast of the Maintenance Building in the area of historic UST-G11. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. An area consisting of fill that was notably different from the surrounding geologic materials was observed. This area was observed at the reported location of historic UST-G11 and is believed to be the UST grave. No other parabolic anomalies were observed. Areas included in the GPR survey and the location of the suspected UST-G11 grave are shown on Figure 2.

Greenhouse/ UST-G10 and UST-GR5:

A GPR survey was conducted in the area north of the greenhouse in the reported locations of UST-G10 and UST-GR5. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. An area consisting of fill that was notably different from the surrounding geologic materials was observed. This area was observed at the reported location of historic UST-G10 and UST-GR5 and is potentially the UST grave of one or both of these USTs. No other parabolic anomalies were observed. Areas included in the GPR survey and the location of the anomaly is shown on Figure 2.

Building 6/ UST-HU4:

A GPR survey was conducted in the area east of Building 6 near the reported location of UST-HU4. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. Because the reported location of historic UST-HU4 is under the existing AST, the UST grave was not observed. Areas included in the GPR survey are shown on Figure 2.

Building 7/ UST-HU5:

A GPR survey was conducted in the area east of Building 7 near the reported location of UST-HU5. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. Because the reported location of historic UST-HU5 is under the existing AST, the UST grave was not observed. Areas included in the GPR survey are shown on Figure 2.

Camp Beacon Housing Unit/ UST-HU1:

A GPR survey was conducted in the area north of the Camp Beacon Housing Unit in the reported locations of UST-HU1. A fill line and vent pipe were observed in the reported location of UST-HU1. Parabolic anomalies consistent with a UST were detected in this area. This area was observed at the reported location of historic UST-HU1 and is believed to be this UST. No other parabolic anomalies were observed. Areas included in the GPR survey and the location of the anomaly is shown on Figure 2.

It should be noted, UST-HU1 was opened and assessed to confirm the UST had been properly closed. The UST was found to contain a high density foam and determined to have been properly closed in accordance with NYSDEC regulations.

4.2 Lithology

During the subsurface investigation, HRP observed overburden soils to consist mainly of sand, with gravel silt and clay present in lesser amounts. Refusal on what is believed to be bedrock was encountered throughout the site at depths ranging from three to fifteen feet below grade. In addition, fill material in the form of trace amounts of brick was observed in SB-3 (0'-5') & SB-4 (0'-5'), SB-9 (1'-1.5') and SB-22 (0'-3'), discoloration was observed in SB-8 (4'-4.5'), slag was observed in SB-10 (1'1.5'), slag and brick was observed in SB-12 (1.5'-3').

4.3 Groundwater

Groundwater was only encountered in one of the twenty-four borings installed onsite, at a depth of five feet below grade. An assessment of groundwater flow direction was not part of this investigation; however, based on local topography and location relative to surface water bodies, shallow groundwater at the site is expected to flow in a generally westerly direction. It should be noted, the groundwater encountered in the one soil boring at five feet below grade is presumed to be perched water, as groundwater was not encountered elsewhere in the overburden across the site.

4.4 Field Screening

Soil Samples

No obvious evidence of contamination such as petroleum staining or odors were noted on soil samples collected in the areas of the historical USTs G11, G10, GR5, HU4 or HU5. In the vicinity of UST-HU1 odors and/or staining were observed on soil samples collected from two soil borings: petroleum odor and grey staining were observed in the soil collected from SB-21 at a depth of nine to ten feet below grade and a black staining was observed on the soil collected from SB-22 at a depth of zero to three feet below grade. No staining or odors were observed in any other soil boring installed in this area. All soil samples collected were screened with the PID, for the presence of gross volatile organics. All PID readings were 0.0 ppm except for the following:

Soil Boring ID	Depth in Feet	PID Reading (ppm)
SB-21	9-10	10.2
SB-22	0-3	4.1
SB-23	7-10	2.8
	10-10.5	4.5

Groundwater Samples

HRP did not observe non-aqueous phase liquid (NAPL) or a sheen on the groundwater sample collected at the subject property.

4.5 Analytical Results

A total of thirteen (13) soil samples and one (1) groundwater sample were submitted under chain of custody to a state-certified laboratory for analysis. The analytical results for the soil and groundwater samples are summarized in Tables 1 and 2 and discussed below. The laboratory results are included in Attachment #3.

Historic UST-G11

Two soil samples were collected from area of historic UST-G11. No VOCs, SVOCs or 8 RCRA Metals were detected above applicable NYSDEC criteria the soil sample collected from this area. Table 1 summarizes all detected compounds in these samples.

Historic UST-G10 and Historic UST-GR5

Four soil samples were collected from area of historic USTs G10 and GR5. One or more compounds were detected at concentrations above applicable NYSDEC criteria in three of the four samples analyzed. In sample SB-6 (4'-5'), no VOCs, SVOCs or 8 RCRA Metals were detected above applicable NYSDEC criteria. In sample SB-8 (4'-4.5') one of the 8 RCRA metals, selenium was detected at a concentration (4.60 mg/kg) exceeding the NYSDEC Part 375 Unrestricted Use SCO (3.9 mg/kg) but well below the Residential Use SCO (36 mg/kg) and the Commercial Use SCO (1,500 mg/kg). In sample SB-10 (1'-1.5') one of the 8 RCRA metals, lead was detected at a concentration (117 mg/kg) exceeding the NYSDEC Part 375 Unrestricted Use SCO (63 mg/kg) but well below the Residential Use SCO (400 mg/kg) and the Commercial Use SCO (10,000 mg/kg).

In sample SB-12(1.5'-3') seven SVOCs and one 8 RCRA Metal were detected at concentrations exceeding applicable NYSDEC Criteria. Benzo(a)anthracene (12,200 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCL (all 1,000 ug/kg), as well as the Commercial SCO (5,500 ug/kg). Benzo(a)pyrene (8,400 ug/kg) exceeded the Unrestricted SCO, Residential SCO, CP-51 SCL and the Commercial SCOs (all 1,000 ug/kg). Benzo(b)flouranthene (5,430 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCL (all 1,000 ug/kg), but not the Commercial SCO (5,500 ug/kg). Benzo(k)flouranthene (4,320 ug/kg) exceeded the Unrestricted SCO (800 ug/kg), Residential SCO (1,000 ug/kg) and CP-51 SCL (800 ug/kg), but not the Commercial SCO (56,000 ug/kg). Chrysene (12,900 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCL (all 1,000 ug/kg), but not the Commercial SCO (56,000 ug/kg). Dibenzo(a,h)anthracene (1,020 ug/kg) exceeded the Unrestricted SCO, Restricted SCO and CP-51 SCL (all 330 ug/kg), as well as the Commercial SCO (560 ug/kg). Indeno(1,2,3-cd)pyrene (2,660 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCLs (all 500 ug/kg), but not the Commercial SCO (5,600 ug/kg). Lead (76.4 mg/kg) exceeded the Unrestricted Use SCO (63 mg/kg), but not the Residential SCO (400 mg/kg) or the Commercial SCO (10,000 mg/kg). No other VOCs, SVOCs or 8RCRA Metals were detected above applicable NYSDEC criteria the soil samples collected from this area. Table 1 summarizes all detected compounds in these samples.

One groundwater sample was collected from area of historic USTs G10 and GR5. Three SVOCs and three Metals were detected in sample SB-12 at concentrations above NYSDEC Technical Operation Guidance (TOGS) criteria. Benzo(a)anthracene (2.20 ug/l) exceeded the TOGS Criteria (0.002 ug/l), Benzo(a)pyrene (1.57 ug/l) exceeded TOGS Criteria (0.002 ug/l) and Chrysene exceeded TOGS Criteria (0.002 ug/l). Arsenic (0.0818 mg/l) exceeded TOGS Criteria (0.025 mg/l), Chromium (0.0420 mg/l) exceeded TOGS Criteria (0.05 mg/l) and Lead (2.26 ug/l) exceeded TOGS Criteria (0.025 ug/l). No other

VOCs, SVOCs or 8 RCRA Metals were detected at concentrations above TOGS Criteria in the water sample collected from this area. Table 2 summarizes all detected compounds in this sample.

Historic UST-HU4

Two soil samples were collected from area of historic UST-HU4. No VOCs, SVOCs or 8 RCRA Metals were detected above applicable NYSDEC criteria the soil samples collected from this area. Table 1 summarizes all detected compounds in these samples.

Historic UST-HU5

Two soil samples were collected from area of historic UST-HU5. No VOCs, SVOCs or 8 RCRA Metals were detected above applicable NYSDEC criteria the soil samples collected from this area. Table 1 summarizes all detected compounds in these samples.

UST-HU1

Three soil samples were collected from area of UST-HU1. No VOCs, SVOCs or 8RCRA Metals were detected above applicable NYSDEC criteria in two of the three soil samples collected from this area. In sample SB-22(0'-3') six SVOCs and one 8 RCRA Metal were detected at concentrations exceeding applicable NYSDEC Criteria. Benzo(a)anthracene (2,630 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCL (all 1,000 ug/kg), but not the Commercial SCO (5,500 ug/kg). Benzo(a)pyrene (2,490 ug/kg) exceeded the Unrestricted SCO, Residential SCO, CP-51 SCL and the Commercial SCOs (all 1,000 ug/kg). Benzo(b)flouranthene (2,620 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCL (all 1,000 ug/kg), but not the Commercial SCO (5,500 ug/kg). Benzo(k)flouranthene (2,090 ug/kg) exceeded the Unrestricted SCO (800 ug/kg), Residential SCO (1,000 ug/kg) and CP-51 SCL (800 ug/kg), but not the Commercial SCO (56,000 ug/kg). Chrysene (2,490 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCL (all 1,000 ug/kg), but not the Commercial SCO (56,000 ug/kg). Indeno(1,2,3-cd)pyrene (1,490 ug/kg) exceeded the Unrestricted SCO, Residential SCO and CP-51 SCLs (all 500 ug/kg), but not the Commercial SCO (5,600 ug/kg). Lead (287 mg/kg) exceeded the Unrestricted Use SCO (63 mg/kg), but not the Residential SCO (400 mg/kg) or the Commercial SCO (10,000 mg/kg). No other VOCs, SVOCs or 8RCRA Metals were detected above applicable NYSDEC criteria the soil samples collected from this area. Table 1 summarizes all detected compounds in these samples.

4.6 Spill Reporting

Analytical results from soil and groundwater indicate an environmental impact from existing UST-HU1. Several SVOCs were detected at concentrations that exceed applicable standards in the soil in this area. Due to elevated concentration of SVOCs detected in the soil at this location, a spill was reported to the NYSDEC on December 5, 2013 and Spill # 13-08885 was assigned to the site.

5.0 CONCLUSIONS AND SPILL CLOSURE

Based upon the data collected to date, HRP offers the following conclusions:

Historic UST-G11

- A GPR survey was conducted southeast of the Maintenance Building in the area of historic UST-G11. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. An area consisting of fill that was notably different from the surrounding geologic materials was observed. This area was observed at the reported location of historic UST-G11 and is believed to be the UST grave.

- Analytical results do not indicate an environmental impact from historic use of UST-G11. No VOCs, 8 RCRA Metals or SVOCs were detected above applicable NYSDEC criteria in the soil samples collected.

Historic UST-G10 and Historic UST-GR5

- A GPR survey was conducted in the area north of the greenhouse in the reported locations of UST-G10 and UST-GR5. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. An area consisting of fill that was notably different from the surrounding geologic materials was observed. This area was observed at the reported location of historic UST-G10 and UST-GR5 and is potentially the UST grave of one or both of these USTs.

- Elevated concentrations of several SVOCs were detected in the soil and groundwater at one boring location in this area. Due to the presence of fill materials including brick and slag at this location, the concentrations appear to be related to historical fill material rather than a petroleum release.

Historic UST-HU4

- A GPR survey was conducted in the area east of Building 6 near the reported location of UST-HU4. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. Because the reported location of historic UST-HU4 is under the existing AST, the UST grave was not observed.

- Analytical results do not indicate an environmental impact from a historic UST-HU4. No VOCs, 8 RCRA Metals or SVOCs were detected above applicable NYSDEC criteria in the soil samples collected.

Historic UST-HU5

- A GPR survey was conducted in the area east of Building 7 near the reported location of UST-HU5. Parabolic anomalies consistent with USTs were not detected in the GPR data collected on the day of the survey. Because the reported location of historic UST-HU5 is under the existing AST, the UST grave was not observed.

- Analytical results do not indicate an environmental impact from a historic UST-HU5. No VOCs, 8 RCRA Metals or SVOCs were detected above applicable NYSDEC criteria in the soil samples collected.

UST-HU1

- A GPR survey was conducted in the area north of the Camp Beacon Housing Unit in the reported locations of UST-HU1. A fill line and vent pipe were observed in the reported location of UST-HU1. Parabolic anomalies consistent with a UST were detected in this area. This area was observed at the reported location of historic UST-HU1 and is believed to be this UST.

- Analytical results from soil the soil sampling indicate an environmental impact from historic UST–HU1. Several SVOCs were detected at concentrations that exceed applicable standards in the soil in this area.

Field Observations

- No obvious evidence of contamination such as staining or odors were noted on soil samples collected in the areas of the historical USTs G11, G10, GR5, HU4 or HU5. In the vicinity of UST-HU1 odors and/or staining were observed on soil samples collected from two soil borings: petroleum odor and grey staining were observed in the soil collected from SB-21 at a depth of nine to ten feet below grade and a black staining was observed on the soil collected from SB-22 at a depth of zero to three feet below grade. No staining or odors were observed in any other soil boring installed in this area. All soil samples collected were screened with the PID, for the presence of gross volatile organics. All PID readings were less than 15.0 ppm.

- Fill material in the form of trace amounts of brick was observed in SB-3 (0'-5') & SB-4 (0'-5'), SB-9 (1'-1.5') and SB-22 (0'-3'), discoloration was observed in SB-8 (4'-4.5'), slag was observed in SB-10 (1'1.5'), slag and brick was observed in SB-12 (1.5'-3').

- HRP did not observe non-aqueous phase liquid (NAPL) or a sheen on the groundwater sample collected at the subject property.

Groundwater

- A groundwater flow assessment not completed at the subject site; however, based on local topography and location relative to surface water bodies, shallow groundwater at the site is expected to flow in a generally westerly direction. Groundwater was only encountered in one of the twenty-four borings installed onsite, at a depth of five feet below grade, and is presumed to be perched water.

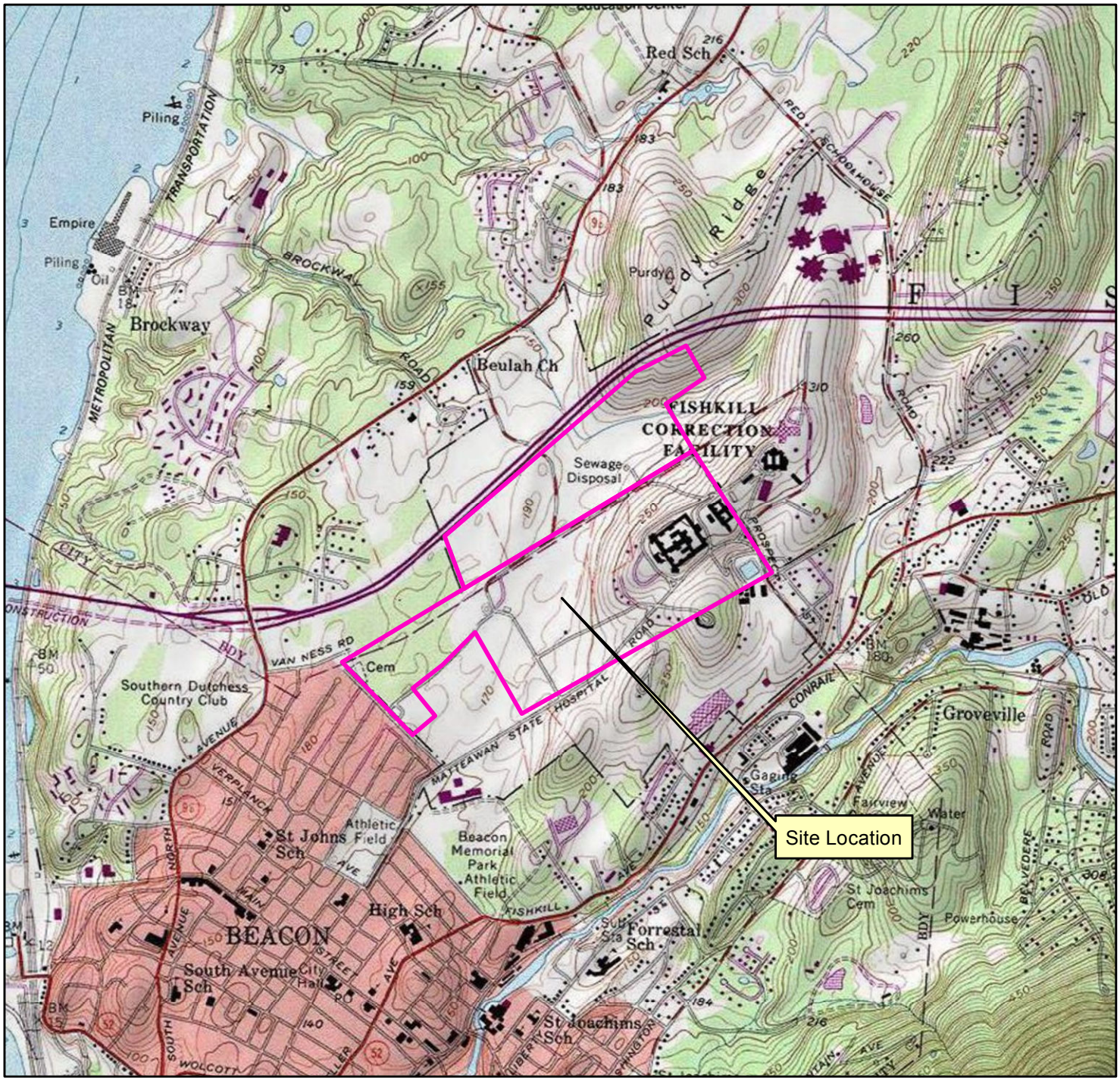
Spill Closure

- On December 13, 2013, HRP submitted the Phase II analytical results and associated figure, as well as a letter to Ms. Melissa Mastro (the Spill case manager at the NYSDEC Region 3) requesting closure of Spill # 13-01061 based on the findings of the Phase II investigation,

- Based on the review of Spill # 13-08885 and the analytical data provided by HRP, the NYSDEC closed the spill on January 8, 2014, and stated no further action is required at this time. The spill closure documentation is included in Attachment #5.

6.0 RECOMMENDATIONS

Based on our findings, HRP has no further recommendations at this time.



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

Feet

1 inch = 2,000 feet

N

USGS Quadrangle Information
Quad ID: 41073-E8
Name: Wappingers Falls, New York
Date Rev: 1981
Date Pub: 1982

Figure 1
Site Location
Beacon Correctional Facility
50 Camp Beacon Road
Beacon, New York
HRP # NEW7420.P1
Scale 1" = 2,000'

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Path: S:\Data\NNEWYR -OGS\DOCS EMIS\Beacon\Phase I Working Directory\GIS\Site Location.mxd

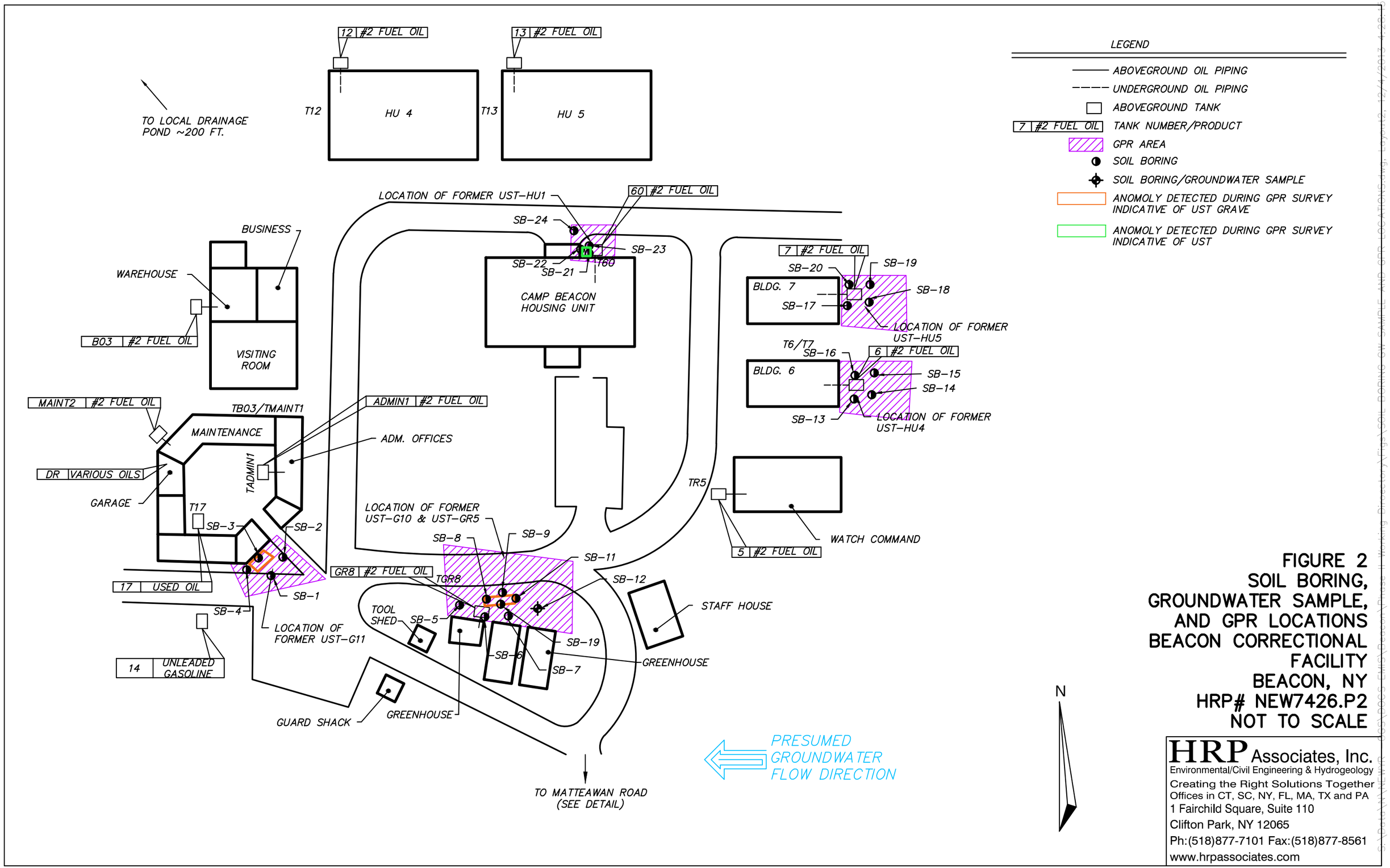

FIGURE 2
SOIL BORING, GROUNDWATER SAMPLE, AND GPR LOCATIONS
BEACON CORRECTIONAL FACILITY
BEACON, NY
HRP# NEW7426.P2
NOT TO SCALE

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S:\Data\NEW\P2\DGS\P0GS EMS\Beacon\Phase II Working Directory\Figs\SOIL BORING GW SAMPLE AND GPR LOCATIONS.dwg, Layout2, 12/4/2013 4:28:13 DWG To PDF.pc3

TABLES

Table 1
Camp Beacon Corectional Facility
50 Camp Beacon Road
Beacon, New York
375-6 SCO - Protection of Public Health - Unrestricted, Residential & Commercial SCOS & CP-51 Fuel Contaminated
Soil Boring Soil Samples - Analyzed for VOCs, SVOCs and 8 RCRA Metals
(Only detected constituents are listed)

	SB-3 (6-7)	SB-4 (3-4)	SB-6 (4-5)	SB-8 (4-4.5)	SB-10 (1-1.5)	SB-12 (1.5-3)	SB-13 (8-10)	SB-16 (8-9)	SB-17 (5-6)	SB-20 (8-9)	SB-21 (9-10)	SB-22 (0-3)	SB-23 (10-10.5)	NY Unrestricted Use Soil Cleanup	NY Restricted Use Soil Cleanup - Residential	NY Restricted Use Soil Cleanup - Commercial	NY CP-51 Soil Table 3 - Fuel Contaminated
Sample Depth (ft.)	**6-7**	**3-4**	**4-5**	**4-4.5**	**1-1.5**	**1.5-3**	**8-10**	**8-9**	**5-6**	**8-9**	**9-10**	**0-3**	**10-10.5**				
Date Collected	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**	**11/14/2013**				
VOCs (ug/kg)																	
4-Isopropyltoluene	ND<2.9 UJL	ND<2.9 UJL	ND<3.0 UJL	ND<2.5 UJL	ND<3.0 UJL	ND<2.9 UJL	ND<2.6 UJL	ND<3.1 UJL	ND<2.7 UJL	ND<3.3 UJL	ND<2.6 UJL	**3.0 JL**	ND<2.2 UJL	NE	NE	NE	10,000
Methylene chloride	**12.8 JL, O01**	**9.4 JL, O01**	**12.9 JL, O01**	**9.1 JL, O01**	**13.0 O01, JL**	**12.6 JL, O01**	**10.4 JL, O01**	**13.3 JL, O01**	**13.8 JL, O01**	**13.1 JL, O01**	**7.4 JL, O01**	**9.8 JL, O01**	**5.9 JL, O01**	50	51,000	500,000	NE
SVOCs (ug/kg)																	
2-Methylnaphthalene	ND<51.9 U	ND<54.9 U	ND<50.8 U	ND<50.4 U	ND<56.5 U	**832 D, J**	ND<53.8 U	ND<53.8 U	ND<53.3 U	ND<57.9 U	ND<51.4 U	ND<536 U, D	ND<51.4 U	NE	NE	NE	NE
Acenaphthene	ND<46.2 U	ND<48.9 U	ND<45.2 U	ND<44.9 U	ND<50.3 U	**4,150 D**	ND<47.9 U	ND<47.9 U	ND<47.4 U	ND<51.6 U	ND<45.8 U	ND<477 U, D	ND<45.7 U	20,000	100,000	500,000	20,000
Anthracene	ND<46.3 U	ND<49.0 U	ND<45.4 U	ND<45.0 U	ND<50.4 U	**6,970 D**	ND<48.0 U	ND<48.0 U	ND<47.5 U	ND<51.7 U	ND<45.9 U	**487 J, D**	ND<45.8 U	100,000	100,000	500,000	100,000
Benzo (a) anthracene	ND<48.6 U	**97.9 J**	ND<47.6 U	ND<47.3 U	**106 J**	**12,200 D**	ND<50.4 U	ND<50.4 U	ND<49.9 U	ND<54.3 U	ND<48.2 U	**2,360 D**	ND<48.1 U	1,000	1,000	5,600	1,000
Benzo (a) pyrene	ND<49.5 U	**88.7 J**	ND<48.5 U	ND<48.1 U	**75.1 J**	**8,460 D**	ND<51.3 U	ND<51.3 U	ND<50.8 U	ND<55.2 U	ND<49.0 U	**2,490 D**	ND<49.0 U	1,000	1,000	1,000	1,000
Benzo (b) fluoranthene	ND<39.5 U	**99.5 J**	ND<38.7 U	ND<38.4 U	**55.7 J**	**5,430 D**	ND<40.9 U	ND<40.9 U	ND<40.5 U	ND<44.1 U	ND<39.1 U	**2,620 D**	ND<39.1 U	1,000	1,000	5,600	1,000
Benzo (g,h,i) perylene	ND<50.6 U	**57.6 J**	ND<49.5 U	ND<49.1 U	ND<55.1 U	**2,810 D**	ND<52.4 U	ND<52.4 U	ND<51.9 U	ND<56.4 U	ND<50.1 U	**1,330 J, D**	ND<50.0 U	100,000	100,000	500,000	100,000
Benzo (k) fluoranthene	ND<64.4 U	ND<68.1 U	ND<63.0 U	ND<62.5 U	ND<70.1 U	**4,320 D**	ND<66.7 U	ND<66.7 U	ND<66.1 U	ND<71.9 U	ND<63.8 U	**2,090 D**	ND<63.7 U	800	1,000	56,000	800
Chrysene	ND<51.3 U	**115 J**	ND<50.2 U	ND<49.8 U	**109 J**	**12,900 D**	ND<53.2 U	ND<53.1 U	ND<52.6 U	ND<57.2 U	ND<50.8 U	**2,490 D**	ND<50.8 U	1,000	1,000	56,000	1,000
Dibenzo (a,h) anthracene	ND<46.9 U	ND<49.7 U	ND<46.0 U	ND<45.6 U	ND<51.1 U	**1,020 J, D**	ND<48.7 U	ND<48.6 U	ND<48.2 U	ND<52.4 U	ND<46.5 U	ND<484 U, D	ND<46.5 U	330	330	560	330
Fluoranthene	ND<50.8 U	**159 J**	ND<49.7 U	ND<49.4 U	**153 J**	**17,700 D**	ND<52.7 U	ND<52.6 U	ND<52.1 U	ND<56.7 U	ND<50.3 U	**4,010 D**	ND<50.3 U	100,000	100,000	500,000	100,000
Fluorene	ND<50.5 U	ND<53.5 U	ND<49.5 U	ND<49.1 U	ND<55.0 U	**3,020 D**	ND<52.4 U	ND<52.4 U	ND<51.9 U	ND<56.4 U	ND<50.1 U	ND<522 U, D	ND<50.0 U	30,000	100,000	500,000	30,000
Indeno (1,2,3-cd) pyrene	ND<50.4 U	**61.4 J**	ND<49.3 U	ND<49.0 U	ND<54.9 U	**2,660 D**	ND<52.2 U	ND<52.2 U	ND<51.7 U	ND<56.2 U	ND<49.9 U	**1,490 J, D**	ND<49.9 U	500	500	5,600	500
Phenanthrene	ND<48.5 U	**84.1 J**	ND<47.5 U	ND<47.1 U	**83.4 J**	**31,500 D**	ND<50.3 U	ND<50.3 U	ND<49.8 U	ND<54.1 U	ND<48.0 U	**2,380 D**	ND<48.0 U	100,000	100,000	500,000	100,000
Pyrene	ND<43.9 U	**156 J**	ND<43.0 U	ND<42.7 U	**192 J**	**36,500 D**	ND<45.5 U	ND<45.5 U	ND<45.1 U	ND<49.0 U	ND<43.5 U	**3,580 D**	ND<43.5 U	100,000	100,000	500,000	100,000
RCRA 8 Metals (mg/kg)																	
Arsenic	**6.33**	**6.14**	**3.96**	**11.7**	**4.84**	**4.40**	**4.01**	**2.49**	**5.46**	**4.97**	**3.15**	**5.92**	**3.83**	13	16	16	NE
Barium	**47.4**	**70.9**	**32.1**	**190**	**56.3**	**56.6**	**35.6**	**38.9**	**35.0**	**37.4**	**29.6**	**64.7**	**27.6**	350	350	400	NE
Chromium	**11.8**	**13.5**	**14.9**	**17.7**	**14.3**	**12.7**	**13.5**	**12.7**	**14.9**	**15.1**	**11.6**	**14.1**	**10.7**	31	36	1500	NE
Lead	**13.4**	**32.6**	**9.03**	**20.9**	**117**	**76.4**	**10.5**	**9.76**	**10.9**	**10.7**	**9.50**	**287**	**10.5**	63	400	10,000	NE
Selenium	ND<0.448 U	ND<0.460 U	ND<0.447 U	**4.60**	ND<0.480 U	ND<0.463 U	ND<0.466 U	ND<0.440 U	ND<0.469 U	ND<0.442 U	ND<0.448 U	ND<0.428 U	ND<0.465 U	3.9	36	1,500	NE
Mercury	**0.0260 J**	**0.0744**	**0.0289 J**	**0.0412**	**0.0633**	**0.0464**	**0.0214 J**	**0.0229 J**	**0.0303 J**	**0.0250 J**	**0.0148 J**	**0.121**	**0.0190 J**	0.18	0.81	2.8	NE

Bold	Sample Exceeds Unrestricted Objective
Bold	Sample Exceeds Restricted Residential Objective
Bold	Sample Exceeds Commercial Objective
	Sample exceeds CP-51 Fuel Contaminated
J	Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
NE	Not Established
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
SVOCs	Semi Volatile Organic Compounds
VOCs	Volatile Organic Compounds
D	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
O01	This compound is a common laboratory contaminant
U	Not Detected above laboratory detection limits
*	Trivalent chromium standard used

Table 2
Camp Beacon Corectional Facility
50 Camp Beacon Road
Beacon, New York
Collected on November 14, 2013
Groundwater Samples- Analyzed for VOCs, SVOCs and RCRA 8 Metals (total and dissolved)
(Only detected constituents are listed)

	SB-12	NYSDEC Class GA Criteria
VOCs (ug/l)		
Naphthalene	1.70	**10**
SVOCs (ug/l)		
1-Methylnaphthalene	1.85 J	NE
2-Methylnaphthalene	2.38 J	NE
Acenaphthene	5.89	20
Anthracene	2.22 J	50
Benzo (a) anthracene	2.21 J	0.002
Benzo (a) pyrene	1.57 J	0
Chrysene	2.54 J	0.002
Fluoranthene	2.55 J	50
Fluorene	2.71 J	50
Naphthalene	1.44 J	10
Phenanthrene	9.69	50
Pyrene	6.30	50
Total RCRA 8 Metals (mg/l)		
Mercury	0.00031	0.0007
Arsenic	0.0818	0.025
Barium	0.695	1
Chromium	0.420	0.05
Lead	2.26	0.025
Dissolved RCRA 8 Metals (mg/l)		
Mercury (dissolved)	ND<0.00008 R01, U	0.0007
Arsenic (dissolved)	ND<0.0036 U	0.025
Barium (dissolved)	0.0118	1
Chromium (dissolved)	0.0019 J	0.05
Lead (dissolved)	ND<0.0040 U	0.025

NYSDEC class GA criteria are from NYSDEC Technical and Operational Guidance Series (TOGS 1.1.1), Ambient water quality, class GA standards/guidance values from Table 1.

Bold	Sample Exceeds NYSDEC Class GA Criteria
J	Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
NE	Not Established
mg/l	milligrams per liter
ug/l	micrograms per liter
RCRA	Resource Conservation and Recovery Act
SVOCs	Semi-Volatile Organic Compounds
VOCs	Volatile Organic Compounds
R01	The Reporting Limit has been raised to account for matrix interference.
ND<xxx	Not Detected above laboratory detection limits

ATTACHMENT #1

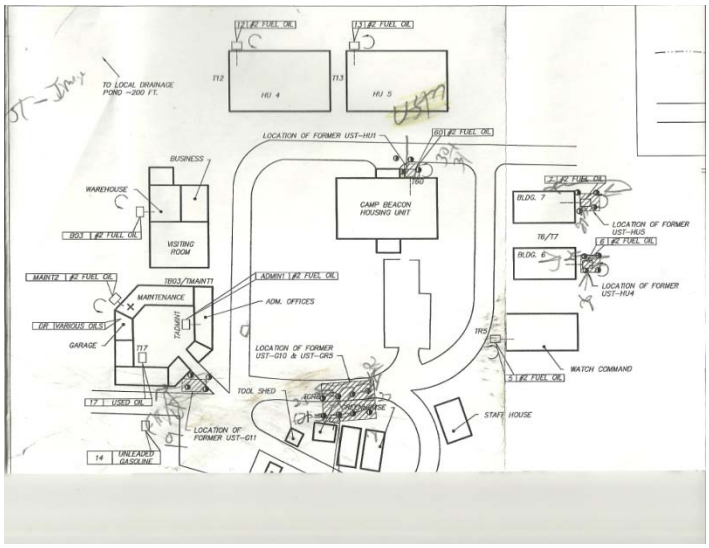
GPR REPORT

GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS

FOR THE LOCATION
AND INVESTIGATION OF:

Underground Storage Tanks

AT THE FOLLOWING
LOCATION:



18 Strack Drive
Beacon, NY.

PREPARED FOR:

Quotation# 1.5456.13

HRP Associates, Inc.
One Fairchild Square, Suite 10
Clifton Park, NY 12065

PREPARED BY:

<u>Sub-Surface Informational Surveys Incorporated</u>
<u>143C Shaker Road, Suite 206</u>
<u>East Longmeadow, MA 01028-0452</u>

"Let us Seek and Find"

November 13, 2013

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GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS

SUB-SURFACE INFORMATIONAL SURVEYS, INC
SUB-SURFACE INFORMATIONAL SURVEYS, INC/GPR DIVISION

143C Shaker Road
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Post Office Box 452
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Email – ray@subsurfaceinc.com

1.0 INTRODUCTION **1-1**

1.1 Purpose and Scope of Work

2.0 GEOPHYSICAL SURVEY **2-1**

2.1 Geophysical Survey Procedures
2.2 Geophysical Survey Results

3.0 GPR ANALYTICAL RESULTS **3-1**

(Data with applicable annotations)

4.0 GPR SAMPLE PROFILES COLLECTED IN THE FIELD **4-1**

5.0 ACQUIRING PROCEDURES **5-1**

GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS

SUB-SURFACE INFORMATIONAL SURVEYS, INC
SUB-SURFACE INFORMATIONAL SURVEYS, INC/GPR DIVISION

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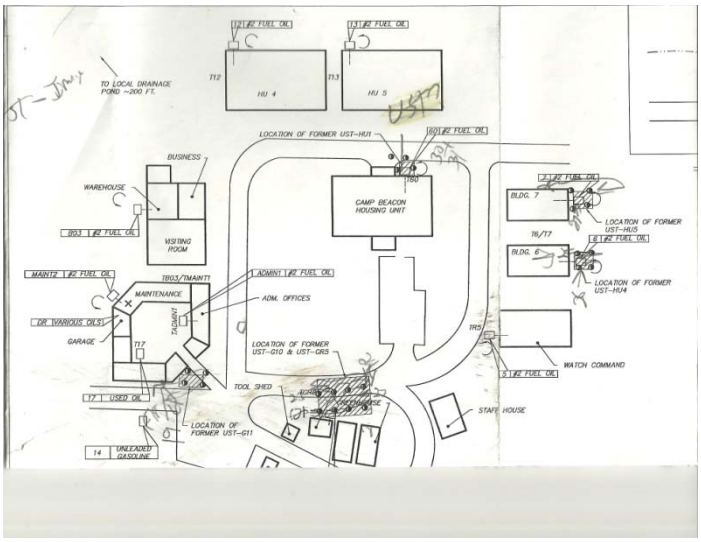
1.0 Introduction

In accordance with your authorization, Sub-Surface Informational Surveys, Inc. (SIS) reports to you the results of the ground penetrating radar survey performed on November 13, 2013 at 18 Strack Drive, Beacon, NY. This survey directed by your approval of SIS quotation #1.5456.13 dated, October 10, 2013.

1.1 Purpose and Scope

The purpose of the ground penetrating radar survey was an investigation for the location of (6) underground storage tanks graves (possible tanks have not been removed) within an area less than 50,000 SF.



GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS

2.0 Geophysical Survey

Sub-Surface Informational Surveys Incorporated performed the geophysical survey. A transducer operator/supervising GPR technician performed the survey.

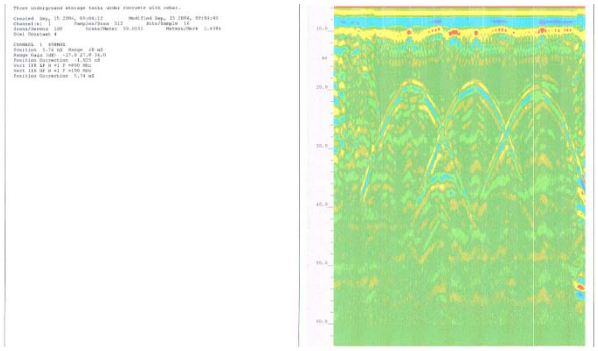
2.1 Geophysical Survey Procedures

The depth setting of the GPR survey was approximately 10.00’ to locate any existing and unknown anomalies. An increase of high conductivity was located at various depths below the surface. The increase in conductivity is commonly caused by the capillary fringe of the water table, clays, silts, or organics. Traverses were conducted with a maximum of a 5.00’ spacing to better conduct the GPR survey. Typically a 5.0’ – 10.0’ spacing is sufficient to detect all large capacity UST’s (500-gallon or greater), septic systems and underground utilities with a high degree of certainty. The spacing of a maximum of 5.0’ was implemented to better define any existing suspected anomalies. GPR traverses were conducted in both north/south and east/west directions to form a grid pattern. Traverses were conducted around all surface obstructions such as, walls, doors, curbs, shelving, equipment, etc...

The following is an explanation of the equipment used during our survey:

1. The equipment used to conduct the geophysical survey included GPR equipment, which consists of **subsurface interface radar** (SIR-3000) computer manufactured by Geophysical Survey Systems, Inc., power supply, graphic recorder, video display unit, and transmitting/receiving antenna. The equipment is known collectively as a **GPR** system. The transmitting/receiving antenna transmits electromagnetic signals into the subsurface and then detects, amplifies and displays reflections of the signal on a graphic recorder and a video display unit. As the antenna is moved slowly across the ground surface or surface of contact, a radar image of the subsurface is produced. The maximum depth of penetration of the GPR signal and the resolution of the reflections are a function of the antenna frequency and the electrical properties of the subsurface. As electrical conductivity of the subsurface increases, GPR signal penetration decreases. GPR reflections are produced by spatial changes in the physical properties of the subsurface (I.e., type of material, presence of any subsurface fluid and porosity) and related changes in the electrical properties of the subsurface material in the path of the signals. The greater the difference in the subsurface structures the stronger the GPR reflection seen in the data.

Characteristics that are considered in the interpretation of the GPR data from a given site include the size, shape, and amplitude of the reflections. Metallic underground storage tanks (UST’s), utilities and conduits have electrical properties uniquely different from those of the soils in which they are buried. As a result, the GPR reflections are usually of high amplitude and have distinctive shapes. For GPR profiles oriented perpendicular to the long axis of the tanks, the signature is similar to a hyperbola. The signature is also a function of the tank diameter.



SAMPLE PHOTO: above represents a sample of data collected by Sub-Surface Informational Surveys, Inc. on Sept. 15, 2004 at a site in the State of CT. It shows three (3) Underground Storage Tanks (UST’s) with the centerline at the top of the parabolas. This data was

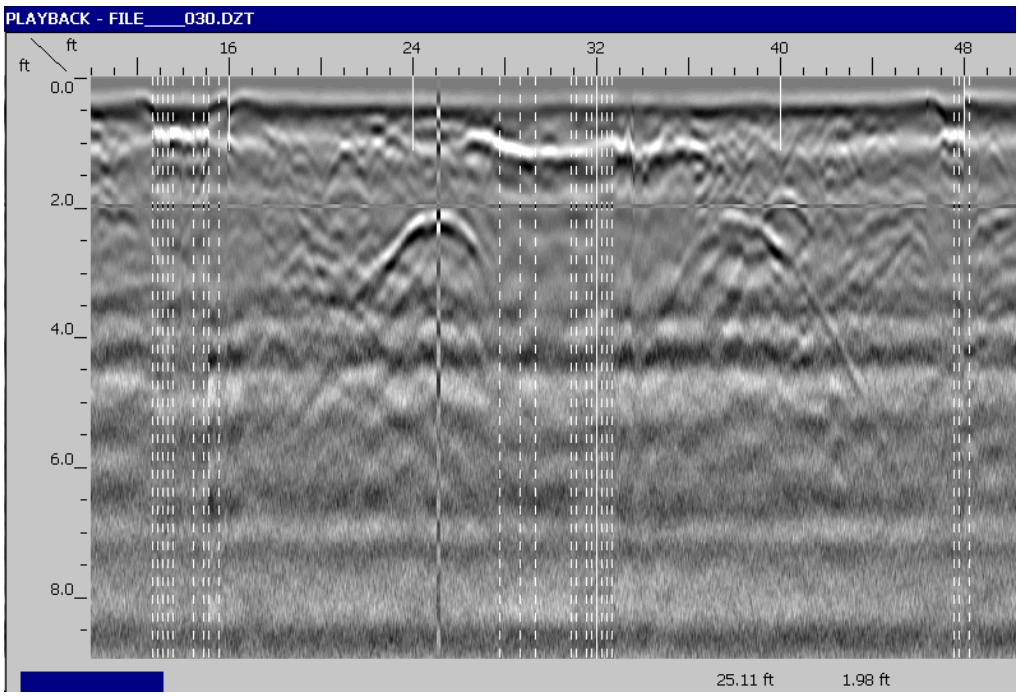
taken through concrete, with rebar. NOTE: The above <u>is not</u> part of the data collected for this survey.

2. **Pipehorn 500 Dual-Transmitter, Dual-Frequency Locator:** This unit has two separate transmitters. One operates at the highest frequency available in sweeping an area of tracing poor conductors such as iron pipes, fiber optic cable w/tracer tape. A second, low frequency transmitter enables us to quickly isolate a single conductor in congested areas, or to trace for a long distance. **NOT IMPLEMENTED**

3. **The Verifier G2:** This unit provides digital signal processing for a variety of applications. The unit offers Active, Passive and Beacon locating modes. The unit transmits via direct line connections, induction clamp or induces broadcast signals. An 80 kHz frequency facilitates locating metallic lines with insulators that weaken or block low frequencies. In passive mode, detects signals generated by 50/60 HZ power as well as radiated radio frequencies. **IMPLEMENTED in PASSIVE MODE**

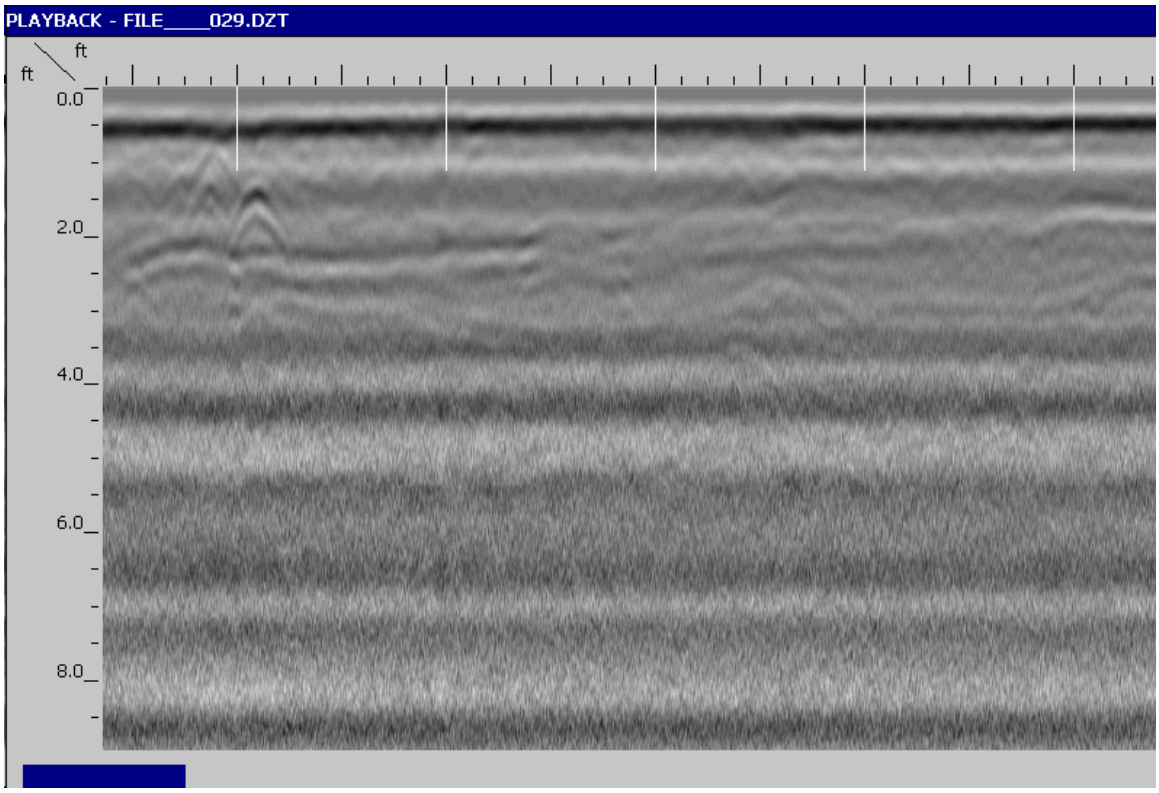
2.2 <u>Geophysical Survey Results</u>

A Ground Penetrating Radar (GPR) survey was conducted in the asphalt and grass covered areas of the site as directed by the HRP Associates project manager for the location of an underground storage tanks and/or graves. Parabolic anomalies consistent with one (1) underground storage tank, and several graves were detected in the GPR data collected on the day of the survey and marked on the ground with crayon, paint and/ or flags on the day of the survey. Photos were not taken due to site regulations.



The above photo represents portion of the area surveyed adjacent the CampBeacon Housing Unit as directed by the HRP project manager. Parabolic anomalies consistent with one (1) underground storage tank were detected in the GPR data collected here and were marked with yellow flags and paint as directed by the HRP project manager.

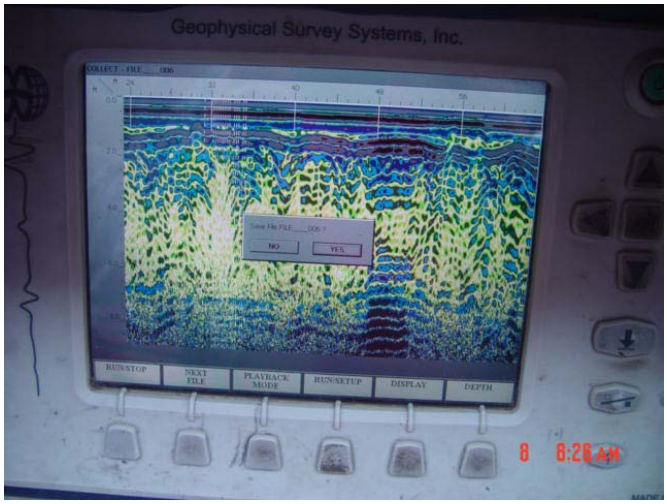
GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS



Above image shows GPR data collected within survey area. Parabolic anomalies consistent with long axis of one (1) suspect underground storage tank can be seen at an approximate depth of 02.15’ in the GPR data.

All results were reviewed with the HRP Associates project manager on the day of the survey.

GROUND PENETRATING RADAR (GPR)
SURVEY RESULTS



Sample: Real-time data collected

SIR-3000 GPR System used in this survey

END OF REPORT

ATTACHMENT #2

SOIL BORING LOGS

HRP *Associates, Inc.*

Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-1**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 9:48**
Location: Former UST-G11	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.3	Moist	0 to 2.5 SAND, coarse; some gravel; loose; no odor or staining. 2.5 to 5 SAND, fine and SILT; trace clay; medium compact; tan; no odor or staining.	0.0 0.0
5	10	4.4	Moist	SAND, fine; some silt, little gravel; trace clay; medium compact; tan; no odor or staining.	0.0
10	12.5	2.2	Moist	10 to 11 SAND, fine; some silt, little gravel; trace clay; medium compact; tan; no odor or staining. 11 to 12 Weathered rock	0.0 0.0
	12.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

HRP *Associates, Inc.*

Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-2**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 10:00**
Location: Former UST-G11	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.7	Moist	0 to 0.75 SAND, coarse; some gravel; loose; no odor or staining. 0.75 to 3 SAND, medium; some silt; little gravel; medium compact; brown; no odor or staining. 3 to 5 SILT and CLAY; loose; tan; no odor or staining.	0.0 0.0 0.0
5	10	4.6	Moist	5 to 5.5 SILT and CLAY; loose; tan; no odor or staining. 5,5 to 10 SAND and SILT and CLAY and GRAVEL; compact; tan; no odor or staining.	0.0 0.0
10	10.5	0.5	Moist	Weathered rock	0.0
	10.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

HRP *Associates, Inc.*

Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-3**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 10:10**
Location: Former UST-G11	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	3.7	Moist	SAND, medium; some gravel; trace brick; loose; tan; no odor or staining.	0.0
5	10	5.0	Moist	5 to 6 SAND, medium; some gravel; loose; tan; no odor or staining. 6 to 10 SAND and SILT; some gravel; compact; tan; no odor or staining.	0.0 0.0
10	10.5	0.5	Moist	Weathered rock	0.0
	10.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-3 (6-7)	10:15
Sampling Method:			
Description of Water:			

HRP *Associates, Inc.*

Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-4**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 10:20**
Location: Former UST-G11	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.5	Dry	0 to 4 SAND, medium; little slag; little brick; loose; black; no odor. 4 to 5 SAND, fine; little silt; medium compact; tan; no odor or staining.	0.0 0.0
5	9.5	4.6	Moist	5 to 6 SAND, medium; some gravel; loose; tan; no odor or staining. 6 to 9 SAND and SILT; some gravel; compact; tan; no odor or staining. 9 to 9.5 Weathered rock	0.0 0.0 0.0
	9.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-4 (3-4)	10:30
Sampling Method:			
Description of Water:			

HRP *Associates, Inc.*

Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-5**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 10:46**

Location: Former UST-G10 and UST-GR-5

GPS Coordinates N: W:

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	3.8	Dry	SAND, medium; little gravel; loose; brown; no odor or staining.	0.0
5	10	4.6	Moist	SAND, fine; some silt; little gravel; medium compact; brown; no odor or staining.	0.0
10	11			Weathered rock	0.0
	11			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-6**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 10:54**

Location: Former UST-G10 and UST-GR-5

GPS Coordinates N: W:

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	**Bottom**				
0	5	3.1	Dry	SAND, fine; compact; tan; no odor or staining.	0.0
5	8	4.6	Moist	5 to 6 SAND, fine; compact; tan; no odor or staining. 6 to 8 Weathered rock	0.0 0.0
	8			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-6 (4-5)	11:00
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-7**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 11:05**
Location: Former UST-G10 and UST-GR-5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	3.1	Dry	0 to 2 SAND, fine; some gravel; medium compact; tan; no odor or staining. 2 to 5 Weathered rock	0.0 0.0
5	6	1.0	Dry	5 to 6 Weathered rock	0.0
	6			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-8**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 11:08**
Location: Former UST-G10 and UST-GR-5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	3.5	Dry	0 to 4 SAND, fine; little silt; medium compact; tan; no odor or staining. 4 to 4.5 SAND, fine; some grave; llittle silt; medium compact; tan; no odor slight black discoloration/fill. 4.5 to 5 Weathered rock	0.0 0.0 0.0
5	5.1	tip	Dry	Weathered rock	0.0
	5.1			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-8 (4-4.5)	11:10
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-9**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 11:17**
Location: Former UST-G10 and UST-GR-5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	1.6	Dry	0 to 1 SAND, fine; little silt; medium compact; tan; no odor or staining. 1 to 1.5 BRICK 1.5 to 3 Weathered rock	0.0 0.0
	3			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-10**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 11:30**
Location: Former UST-G10 and UST-GR-5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	3.5	1.6	Dry	0 to 1 SAND, fine; little silt; medium compact; tan; no odor or staining. 1 to 1.5 SAND, fine and SLAG; loose; no odor or staining. 1.5 to 3.5 Weathered rock	0.0 0.0
	3.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-10 (1-1.5)	11:30
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-11**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 11:34**
Location: Former UST-G10 and UST-GR-5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	3.0	1.0	Dry	0 to 2 SAND, fine; little silt; medium compact; tan; no odor or staining. 2 to 3 Weathered rock	0.0 0.0
	3.0			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-12**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 11:38**
Location: Former UST-G10 and UST-GR-5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	3.2	Moist	0 to 1.5 SAND, fine; some gravel; little silt; medium compact; tan; no odor or staining.	0.0
				1.5 to 3 SAND, fine; some gravel; little silt; trace slag; trace brick; medium compact; tan; no odor or staining.	0.0
				3 to 5 SILT; some clay; tan; medium compact; no odor or staining.	0.0
5	8	3.1	Wet	5 to 6 GRAVEL, coarse; loose; grey; no odor or staining.	0.0
				6 to 8 SILT and GRAVEL some clay very compact; tan; no odor or staining	0.0
	8			Refusal, end of boring.	

Well Screen: 8 to 3		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-12 (1.5-3)	11:40
SB-12	11:45		
Sampling Method: Peristaltic			
Description of Water: Very turbid			

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Project: Camp Beacon	**Boring I.D.: SB-13**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 12:13**
Location: Former UST-HU4	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	1.5	Moist	SAND, medium to fine; some gravel; medium compact; tan; no odor or staining.	0.0
5	10	3.3	Moist	SAND, medium to fine; trace gravel; trace clay; medium compact; tan; no odor or staining.	0.0
10	13	2.7	Moist	SAND, medium to fine; trace gravel; trace clay; medium compact; tan; no odor or staining.	0.0
	13			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-13 (8-10)	12:20
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-14**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 12:25**

Location: Former UST-HU4

GPS Coordinates N: W:

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	**Bottom**				
0	5	3.2	Moist	SAND, fine; trace gravel; loose; tan; no odor or staining.	0.0
5	10	4.5	Moist	SAND, fine; trace gravel; trace clay; loose; tan; no odor or staining.	0.0
10	13	3.2	Moist	SAND, medium; some clay; trace gravel; loose; brown; no odor or staining.	0.0
	13			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-15**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 12:32**
Location: Former UST-HU4	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.9	Moist	SAND, fine; trace gravel; loose; tan; no odor or staining.	0.0
5	10	3.5	Moist	SAND, fine; trace gravel; trace clay; loose; tan; no odor or staining.	0.0
10	13	2.9	Moist	SAND, medium; some clay; trace gravel; loose; brown; no odor or staining.	0.0
	13			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-16**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 12:39**
Location: Former UST-HU4	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	3.3	Moist	SAND, medium to coarse; some gravel; medium compact; brown; no odor or staining.	0.0
5	10	4.5	Moist	5 to 6 SAND, medium to coarse; some gravel; medium compact; brown; no odor or staining. 6 to 10 SAND, fine; some silt; trace gravel; loose; tan; no odor or staining.	0.0 0.0
10	11	2.5	Moist	SILT; some medium sand; some gravel; loose; brown; no odor or staining.	0.0
	11			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-16 (8-9)	12:50
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-17**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 13:00**
Location: Former UST-HU5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	1.1	Dry	Pea-gravel; no odor or staining.	0.0
5	10	1.1	Moist	SAND, fine; some silt; trace gravel; loose; tan; no odor or staining.	0.0
10	12.5	2.5	Moist	SAND, fine; some silt; trace gravel; loose; tan; no odor or staining.	0.0
	12.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-17 (5-6)	13:10
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-18**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 13:15**

Location: Former UST-HU5

GPS Coordinates N: W:

Sample Interval (ftbg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	**Bottom**				
0	5	3.9	Moist	SAND, fine; some gravel; trace silt; loose; tan; no odor or staining.	0.0
5	10	3.2	Moist	SAND, fine; some silt; trace clay; loose; tan; no odor or staining.	0.0
10	13	3.7	Moist	SAND, coarse; some silt; some gravel; loose; tan; no odor or staining.	0.0
	13			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-19**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 13:20**

Location: Former UST-HU5

GPS Coordinates N: W:

Sample Interval (ftbg) Top	Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	3.8	Moist	SAND, fine; trace gravel; loose; tan; no odor or staining.	0.0
5	10	4.5	Moist	SAND, medium to coarse; some gravel; trace clay; loose; tan; no odor or staining.	0.0
10	14.5	5.0	Moist	10 to 13 SAND, fine and SILT and Gravel; compact; tan; no odor or staining. 13 to 14.5 Weathered rock	0.0 0.0
	14.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-20**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 13:30**
Location: Former UST-HU5	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.9	Moist	SAND, fine to medium; trace gravel; loose; tan; no odor or staining.	0.0
5	10	2.5	Moist	SAND, fine to medium; some gravel; loose; tan; no odor or staining.	0.0
10	15	5.0	Moist	10 to 14 SAND, fine to medium; trace gravel; loose; tan; no odor or staining. 14 to 15 Weathered rock	0.0 0.0
	15			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-20 (8-9)	13:45
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-21**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 14:05**
Location: Former UST-HU1	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.4	Moist	SAND, medium; little gravel; loose; tan; no odor or staining.	0.0
5	10	2.8	Moist	5 to 9: SAND, medium; some gravel; loose; tan; no odor or staining. 9 to 10 SAND, medium; some gravel; loose; tan; fuel oil odor; grey staining.	0.0 10.2
10	12.5	2.5	Moist	SAND, medium; some gravel; loose; tan; no odor or staining.	0.0
	12.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-21 (9-10)	13:45
Sampling Method:			
Description of Water:			

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Project: Camp Beacon	**Boring I.D.: SB-22**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 14:15**
Location: Former UST-HU1	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	3	NA	Moist	SAND, medium; some gravel; some brick; loose; brown; no odor or staining.	4.1
	3			Refusal, end of boring.	
				Note collected with hand auger	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-22 (0-3)	14:20
Sampling Method:			
Description of Water:			

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Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-23**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 14:27**
Location: Former UST-HU1	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	2.5	Moist	SAND, medium; some gravel; loose; tan; no odor or staining.	0.0
5	10	3.7	Moist	5 to 7: SAND, medium; some gravel; loose; tan; no odor or staining. 7 to 10 SAND, fine; some gravel; loose; trace clay; dark brown; fuel oil odor; grey staining.	0.0 2.8
10	10.5	1.5	Moist	SAND, fine; some gravel; loose; trace clay; dark brown; fuel oil odor; grey staining. Weathered rock in tip	4,5
	12.5			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	SB-21 (10-10.5)	14:30
Sampling Method:			
Description of Water:			

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Creating the Right Solutions Together

Project: Camp Beacon	**Boring I.D.: SB-24**
Job Number: NEW7426.p2	**Date: 11/14/13**
Drilling Company: Zebra Environmental	**Time: 14:36**
Location: Former UST-HU1	
GPS Coordinates N:	**W:**

Sample Interval (ftbg)		**Recovery (ft)**	**Moisture**	**Description (grain size, color, compaction, staining, odor)**	**PID (PPM)**
Top	**Bottom**				
0	5	1.25	Moist	SAND, medium; some gravel; little silt; loose; dark brown; no odor or staining.	0.0
5	10	2.6	Moist	SAND, medium; some gravel; little silt; loose; dark brown; no odor or staining.	0.0
10	12	1.9	Moist	SAND, medium; some gravel; little silt; loose; dark brown; no odor or staining.	0.0
	12			Refusal, end of boring.	

Well Screen: None		**Soil Samples Collected:**	**Time**
Water Sample ID	Time	None	
Sampling Method:			
Description of Water:			

ATTACHMENT #3

LABORATORY REPORT

Report Date:
25-Nov-13 16:49

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

HRP Associates, Inc.
One Fairchild Square, Suite 110
Clifton Park, NY 12065
Attn: Mark Wright

Project: Beacon, NY
Project #: New 7426.P2

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB80494-01	SB-3 (6-7)	Soil/Sediment	14-Nov-13 10:15	16-Nov-13 10:00
SB80494-02	SB-4 (3-4)	Soil/Sediment	14-Nov-13 10:30	16-Nov-13 10:00
SB80494-03	SB-6 (4-5)	Soil/Sediment	14-Nov-13 11:00	16-Nov-13 10:00
SB80494-04	SB-8 (4-4.5)	Soil/Sediment	14-Nov-13 11:10	16-Nov-13 10:00
SB80494-05	SB-10 (1-1.5)	Soil/Sediment	14-Nov-13 11:30	16-Nov-13 10:00
SB80494-06	SB-12 (1.5-3)	Soil/Sediment	14-Nov-13 11:40	16-Nov-13 10:00
SB80494-07	SB-12	Ground Water	14-Nov-13 11:45	16-Nov-13 10:00
SB80494-08	SB-13 (8-10)	Soil/Sediment	14-Nov-13 12:20	16-Nov-13 10:00
SB80494-09	SB-16 (8-9)	Soil/Sediment	14-Nov-13 12:50	16-Nov-13 10:00
SB80494-10	SB-17 (5-6)	Soil/Sediment	14-Nov-13 13:10	16-Nov-13 10:00
SB80494-11	SB-20 (8-9)	Soil/Sediment	14-Nov-13 13:45	16-Nov-13 10:00
SB80494-12	SB-21 (9-10)	Soil/Sediment	14-Nov-13 14:15	16-Nov-13 10:00
SB80494-13	SB-22 (0-3)	Soil/Sediment	14-Nov-13 14:20	16-Nov-13 10:00
SB80494-14	SB-23 (10-10.5)	Soil/Sediment	14-Nov-13 14:30	16-Nov-13 10:00

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 87 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.

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

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 5.0 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.

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.

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.

All volatile soil/product/solid samples should be collected in accordance method SW846 5035/5035A. Any sample with a result below 200ug/Kg that has not been collected in accordance with method 5035/5035A must be evaluated as potentially biased low.

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

EPA 200.7/3005A/6010

Samples:

SB80494-07 *SB-12*

This sample was received outside the EPA recommended holding time for the analysis specified.

Filtration

EPA 245.1/7470A

Duplicates:

1328348-DUP1 *Source: SB80494-07*

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

Mercury

1328375-DUP1 *Source: SB80494-07*

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

Mercury

Samples:

SB80494-07 *SB-12*

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

Mercury

SW846 6010C

Spikes:

1328346-MS1 *Source: SB80494-07*

SW846 6010C

Spikes:

1328346-MS1 *Source: SB80494-07*

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.

Arsenic
Cadmium
Lead
Selenium

1328346-MSD1 *Source: SB80494-07*

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.

Arsenic
Barium
Cadmium
Lead
Selenium

Duplicates:

1328346-DUP1 *Source: SB80494-07*

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

Cadmium
Silver

Samples:

SB80494-04 *SB-8 (4-4.5)*

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

Cadmium

SB80494-07 *SB-12*

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

Cadmium
Silver

SW846 8260C

Calibration:

1310092

Analyte quantified by quadratic equation type calibration.

2-Butanone (MEK)
Naphthalene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1310092

This affected the following samples:

1328192-BLK1
1328192-BS1
1328192-BSD1
1328194-BLK1
1328194-BS1
1328194-BSD1
1328320-BLK1
1328320-BS1
1328320-BSD1
S312829-ICV1
S314237-CCV1
S314239-CCV1
S314299-CCV1
SB-10 (1-1.5)
SB-12 (1.5-3)
SB-13 (8-10)
SB-16 (8-9)
SB-17 (5-6)
SB-20 (8-9)
SB-21 (9-10)
SB-22 (0-3)
SB-23 (10-10.5)
SB-3 (6-7)
SB-4 (3-4)
SB-6 (4-5)
SB-8 (4-4.5)

1311042

Analyte quantified by quadratic equation type calibration.

1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromoform
cis-1,3-Dichloropropene
Dibromochloromethane
Hexachlorobutadiene
Naphthalene
n-Butylbenzene
n-Propylbenzene
sec-Butylbenzene
Styrene
Tert-amyl methyl ether
tert-Butylbenzene
Tetrahydrofuran
trans-1,3-Dichloropropene
Vinyl chloride

SW846 8260C

Calibration:

1311042

This affected the following samples:

1328230-BLK1
1328230-BS1
1328230-BSD1
S314079-ICV1
S314250-CCV1
SB-12

S314079-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

1,2,3-Trichlorobenzene (121%)
Chloromethane (126%)

This affected the following samples:

1328230-BLK1
1328230-BS1
1328230-BSD1
S314250-CCV1
SB-12

Laboratory Control Samples:

1328192 BS/BSD

Tert-Butanol / butyl alcohol percent recoveries (134/127) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SB-10 (1-1.5)
SB-12 (1.5-3)
SB-13 (8-10)
SB-16 (8-9)
SB-17 (5-6)
SB-20 (8-9)
SB-3 (6-7)
SB-6 (4-5)
SB-8 (4-4.5)

Samples:

S314237-CCV1

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

2,2-Dichloropropane (23.2%)
4-Methyl-2-pentanone (MIBK) (25.3%)
Methyl tert-butyl ether (20.9%)
Tert-Butanol / butyl alcohol (34.3%)

SW846 8260C

Samples:

S314237-CCV1

This affected the following samples:

1328192-BLK1
1328192-BS1
1328192-BSD1
SB-10 (1-1.5)
SB-12 (1.5-3)
SB-13 (8-10)
SB-16 (8-9)
SB-17 (5-6)
SB-20 (8-9)
SB-3 (6-7)
SB-6 (4-5)
SB-8 (4-4.5)

S314239-CCV1

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

Tert-Butanol / butyl alcohol (21.6%)

This affected the following samples:

1328194-BLK1
1328194-BS1
1328194-BSD1
SB-21 (9-10)
SB-22 (0-3)
SB-23 (10-10.5)

S314250-CCV1

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

Dichlorodifluoromethane (Freon12) (20.9%)

This affected the following samples:

1328230-BLK1
1328230-BS1
1328230-BSD1
SB-12

S314299-CCV1

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

Carbon tetrachloride (21.4%)
Tert-Butanol / butyl alcohol (20.9%)

This affected the following samples:

1328320-BLK1
1328320-BS1
1328320-BSD1
SB-4 (3-4)

SB80494-01 *SB-3 (6-7)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-02 *SB-4 (3-4)*

SW846 8260C

Samples:

SB80494-02 *SB-4 (3-4)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-03 *SB-6 (4-5)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-04 *SB-8 (4-4.5)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-05 *SB-10 (1-1.5)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-06 *SB-12 (1.5-3)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-08 *SB-13 (8-10)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-09 *SB-16 (8-9)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-10 *SB-17 (5-6)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-11 *SB-20 (8-9)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-12 *SB-21 (9-10)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-13 *SB-22 (0-3)*

This compound is a common laboratory contaminant.

Methylene chloride

SB80494-14 *SB-23 (10-10.5)*

This compound is a common laboratory contaminant.

Methylene chloride

SW846 8270D

Spikes:

1328259-MS1 *Source: SB80494-03*

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

2-Methylnaphthalene

Samples:

S314336-CCV1

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

Anthracene (-21.4%)
Dibenzo (a,h) anthracene (45.5%)
Indeno (1,2,3-cd) pyrene (39.4%)

This affected the following samples:

1328259-BLK1
1328259-BS1

S314367-CCV1

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

2-Methylnaphthalene (25.7%)
Fluorene (25.7%)

This affected the following samples:

1328259-DUP1
1328259-MS1
1328259-MSD1
SB-10 (1-1.5)
SB-12 (1.5-3)
SB-13 (8-10)
SB-16 (8-9)
SB-17 (5-6)
SB-20 (8-9)
SB-21 (9-10)
SB-22 (0-3)
SB-23 (10-10.5)
SB-3 (6-7)
SB-4 (3-4)
SB-6 (4-5)
SB-8 (4-4.5)

S314449-CCV1

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

Fluoranthene (20.8%)
Fluorene (21.2%)

This affected the following samples:

1328090-BLK1
1328090-BS1
1328090-BSD1
SB-12

SB80494-06 *SB-12 (1.5-3)*

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

SW846 8270D

Samples:

SB80494-13	*SB-22 (0-3)*

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

Sample Acceptance Check Form

Client:	HRP Associates, Inc. - Clifton Park, NY
Project:	Beacon, NY / New 7426.P2
Work Order:	SB80494
Sample(s) received on:	11/16/2013
Received by:	Terry Brown

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
SB-3 (6-7)	New 7426.P2	Soil/Sediment	14-Nov-13 10:15	16-Nov-13
SB80494-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.88 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.6	UJL	µg/kg dry	6.1	3.6	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 57.8	UJL	µg/kg dry	60.8	57.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.9	UJL	µg/kg dry	6.1	5.9	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	6.1	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.7	UJL	µg/kg dry	6.1	1.7	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.3	UJL	µg/kg dry	6.1	5.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.3	UJL	µg/kg dry	6.1	3.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.8	UJL	µg/kg dry	12.2	10.8	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 18.6	UJL	µg/kg dry	60.8	18.6	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.2	UJL	µg/kg dry	6.1	4.2	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.7	UJL	µg/kg dry	6.1	2.7	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.6	UJL	µg/kg dry	6.1	1.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.7	UJL	µg/kg dry	12.2	8.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.3	UJL	µg/kg dry	6.1	3.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.0	UJL	µg/kg dry	12.2	4.0	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.2	UJL	µg/kg dry	12.2	6.2	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.9	UJL	µg/kg dry	6.1	1.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.8	UJL	µg/kg dry	6.1	2.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.7	UJL	µg/kg dry	12.2	11.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.4	UJL	µg/kg dry	6.1	4.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.6	UJL	µg/kg dry	6.1	4.6	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.1	UJL	µg/kg dry	6.1	4.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.0	UJL	µg/kg dry	6.1	2.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.7	UJL	µg/kg dry	6.1	2.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.3	UJL	µg/kg dry	6.1	2.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.0	UJL	µg/kg dry	12.2	3.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.9	UJL	µg/kg dry	6.1	5.9	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.0	UJL	µg/kg dry	6.1	4.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.2	UJL	µg/kg dry	6.1	3.2	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.6	UJL	µg/kg dry	6.1	2.6	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.2	UJL	µg/kg dry	6.1	5.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.2	UJL	µg/kg dry	6.1	3.2	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.4	UJL	µg/kg dry	6.1	4.4	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.5	UJL	µg/kg dry	6.1	2.5	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.3	UJL	µg/kg dry	6.1	2.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.2	UJL	µg/kg dry	6.1	2.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3 (6-7)	New 7426.P2	Soil/Sediment	14-Nov-13 10:15	16-Nov-13
SB80494-01				

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: 4.88 g							
87-68-3	Hexachlorobutadiene	< 6.0	UJL	µg/kg dry	6.1	6.0	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 14.1	UJL	µg/kg dry	60.8	14.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.3	UJL	µg/kg dry	6.1	1.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.9	UJL	µg/kg dry	6.1	2.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.8	UJL	µg/kg dry	6.1	3.8	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 25.0	UJL	µg/kg dry	60.8	25.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**12.8**	JL, O01	µg/kg dry	12.2	5.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.7	UJL	µg/kg dry	6.1	2.7	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.4	UJL	µg/kg dry	6.1	2.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.8	UJL	µg/kg dry	6.1	1.8	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.0	UJL	µg/kg dry	6.1	3.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.6	UJL	µg/kg dry	6.1	5.6	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.8	UJL	µg/kg dry	6.1	3.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.1	UJL	µg/kg dry	6.1	4.1	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.3	UJL	µg/kg dry	6.1	4.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.7	UJL	µg/kg dry	6.1	4.7	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.3	UJL	µg/kg dry	6.1	4.3	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.7	UJL	µg/kg dry	6.1	4.7	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.4	UJL	µg/kg dry	6.1	4.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.8	UJL	µg/kg dry	6.1	3.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.6	UJL	µg/kg dry	6.1	2.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.1	UJL	µg/kg dry	6.1	5.1	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.1	UJL	µg/kg dry	6.1	2.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.4	UJL	µg/kg dry	6.1	2.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.2	UJL	µg/kg dry	12.2	8.2	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.5	UJL	µg/kg dry	6.1	1.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.0	UJL	µg/kg dry	12.2	6.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.4	UJL	µg/kg dry	6.1	4.4	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.5	UJL	µg/kg dry	6.1	1.5	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.4	UJL	µg/kg dry	6.1	2.4	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.2	UJL	µg/kg dry	6.1	3.2	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 59.7	UJL	µg/kg dry	60.8	59.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 108	UJL	µg/kg dry	122	108	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 10.4	UJL	µg/kg dry	30.4	10.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 397	UJL	µg/kg dry	2430	397	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-3 (6-7)	New 7426.P2	Soil/Sediment	14-Nov-13 10:15	16-Nov-13
SB80494-01				

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	< 46.2	U	µg/kg dry	182	46.2	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 50.4	U	µg/kg dry	182	50.4	1	"	"	"	"	"	X
120-12-7	Anthracene	< 46.3	U	µg/kg dry	182	46.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 48.6	U	µg/kg dry	182	48.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 49.5	U	µg/kg dry	182	49.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 39.5	U	µg/kg dry	182	39.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 50.6	U	µg/kg dry	182	50.6	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 64.4	U	µg/kg dry	182	64.4	1	"	"	"	"	"	X
218-01-9	Chrysene	< 51.3	U	µg/kg dry	182	51.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 46.9	U	µg/kg dry	182	46.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 50.8	U	µg/kg dry	182	50.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 50.5	U	µg/kg dry	182	50.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 50.4	U	µg/kg dry	182	50.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 53.6	U	µg/kg dry	182	53.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 51.9	U	µg/kg dry	182	51.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.7	U	µg/kg dry	182	50.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 48.5	U	µg/kg dry	182	48.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 43.9	U	µg/kg dry	182	43.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*65*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*54*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.451	U	mg/kg dry	1.56	0.451	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**6.33**		mg/kg dry	1.56	0.682	1	"	"	"	"	"	X
7440-39-3	Barium	**47.4**		mg/kg dry	1.04	0.336	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.153	U	mg/kg dry	0.521	0.153	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**11.8**		mg/kg dry	1.04	0.225	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0260**	J	mg/kg dry	0.0290	0.0015	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**13.4**		mg/kg dry	1.56	0.577	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.448	U	mg/kg dry	1.56	0.448	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.4**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 (3-4)	New 7426.P2	Soil/Sediment	14-Nov-13 10:30	16-Nov-13
SB80494-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.54 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.7	UJL	µg/kg dry	6.2	3.7	1	SW846 8260C	21-Nov-13	21-Nov-13	JEG	1328320	X
67-64-1	Acetone	< 58.8	UJL	µg/kg dry	61.8	58.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.1	UJL	µg/kg dry	6.2	6.1	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	6.2	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.7	UJL	µg/kg dry	6.2	1.7	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.4	UJL	µg/kg dry	6.2	5.4	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.6	UJL	µg/kg dry	6.2	4.6	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.4	UJL	µg/kg dry	6.2	3.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.0	UJL	µg/kg dry	12.4	11.0	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.0	UJL	µg/kg dry	61.8	19.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.3	UJL	µg/kg dry	6.2	4.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.7	UJL	µg/kg dry	6.2	2.7	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.6	UJL	µg/kg dry	6.2	1.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.8	UJL	µg/kg dry	12.4	8.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.5	UJL	µg/kg dry	6.2	4.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.4	UJL	µg/kg dry	6.2	3.4	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.1	UJL	µg/kg dry	12.4	4.1	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.6	UJL	µg/kg dry	6.2	4.6	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.3	UJL	µg/kg dry	12.4	6.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.9	UJL	µg/kg dry	6.2	1.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.8	UJL	µg/kg dry	6.2	2.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.9	UJL	µg/kg dry	12.4	11.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.5	UJL	µg/kg dry	6.2	4.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.7	UJL	µg/kg dry	6.2	4.7	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.2	UJL	µg/kg dry	6.2	4.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.1	UJL	µg/kg dry	6.2	2.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.7	UJL	µg/kg dry	6.2	2.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.3	UJL	µg/kg dry	6.2	2.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.1	UJL	µg/kg dry	12.4	3.1	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.0	UJL	µg/kg dry	6.2	6.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.1	UJL	µg/kg dry	6.2	4.1	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.3	UJL	µg/kg dry	6.2	3.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.7	UJL	µg/kg dry	6.2	2.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.3	UJL	µg/kg dry	6.2	5.3	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.3	UJL	µg/kg dry	6.2	3.3	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.5	UJL	µg/kg dry	6.2	4.5	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.5	UJL	µg/kg dry	6.2	2.5	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.4	UJL	µg/kg dry	6.2	2.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.2	UJL	µg/kg dry	6.2	2.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.8	UJL	µg/kg dry	6.2	3.8	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 (3-4)	New 7426.P2	Soil/Sediment	14-Nov-13 10:30	16-Nov-13
SB80494-02				

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: 5.54 g							
87-68-3	Hexachlorobutadiene	< 6.2	UJL	µg/kg dry	6.2	6.2	1	SW846 8260C	21-Nov-13	21-Nov-13	JEG	1328320	X
591-78-6	2-Hexanone (MBK)	< 14.4	UJL	µg/kg dry	61.8	14.4	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.4	UJL	µg/kg dry	6.2	1.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.9	UJL	µg/kg dry	6.2	2.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.9	UJL	µg/kg dry	6.2	3.9	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 25.4	UJL	µg/kg dry	61.8	25.4	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**9.4**	JL, O01	µg/kg dry	12.4	5.1	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.8	UJL	µg/kg dry	6.2	2.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.4	UJL	µg/kg dry	6.2	2.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.9	UJL	µg/kg dry	6.2	1.9	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.1	UJL	µg/kg dry	6.2	3.1	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.7	UJL	µg/kg dry	6.2	5.7	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.9	UJL	µg/kg dry	6.2	3.9	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.2	UJL	µg/kg dry	6.2	4.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.4	UJL	µg/kg dry	6.2	4.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.8	UJL	µg/kg dry	6.2	4.8	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.4	UJL	µg/kg dry	6.2	4.4	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.8	UJL	µg/kg dry	6.2	4.8	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.4	UJL	µg/kg dry	6.2	4.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.8	UJL	µg/kg dry	6.2	3.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.6	UJL	µg/kg dry	6.2	2.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.2	UJL	µg/kg dry	6.2	5.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.1	UJL	µg/kg dry	6.2	2.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.4	UJL	µg/kg dry	6.2	2.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.7	UJL	µg/kg dry	6.2	3.7	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.3	UJL	µg/kg dry	12.4	8.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.6	UJL	µg/kg dry	6.2	1.6	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.1	UJL	µg/kg dry	12.4	6.1	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.5	UJL	µg/kg dry	6.2	4.5	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.5	UJL	µg/kg dry	6.2	1.5	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.5	UJL	µg/kg dry	6.2	2.5	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.2	UJL	µg/kg dry	6.2	3.2	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 60.8	UJL	µg/kg dry	61.8	60.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 110	UJL	µg/kg dry	124	110	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 10.6	UJL	µg/kg dry	30.9	10.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 404	UJL	µg/kg dry	2470	404	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*106*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*124*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*116*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-4 (3-4)	New 7426.P2	Soil/Sediment	14-Nov-13 10:30	16-Nov-13
SB80494-02				

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	< 48.9	U	µg/kg dry	192	48.9	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 53.3	U	µg/kg dry	192	53.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 49.0	U	µg/kg dry	192	49.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**97.9**	J	µg/kg dry	192	51.5	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**88.7**	J	µg/kg dry	192	52.4	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**99.5**	J	µg/kg dry	192	41.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**57.6**	J	µg/kg dry	192	53.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 68.1	U	µg/kg dry	192	68.1	1	"	"	"	"	"	X
218-01-9	Chrysene	**115**	J	µg/kg dry	192	54.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 49.7	U	µg/kg dry	192	49.7	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**159**	J	µg/kg dry	192	53.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 53.5	U	µg/kg dry	192	53.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**61.4**	J	µg/kg dry	192	53.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 56.7	U	µg/kg dry	192	56.7	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 54.9	U	µg/kg dry	192	54.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 53.7	U	µg/kg dry	192	53.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**84.1**	J	µg/kg dry	192	51.3	1	"	"	"	"	"	X
129-00-0	Pyrene	**156**	J	µg/kg dry	192	46.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*77*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*70*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.462	U	mg/kg dry	1.60	0.462	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**6.14**		mg/kg dry	1.60	0.700	1	"	"	"	"	"	X
7440-39-3	Barium	**70.9**		mg/kg dry	1.07	0.344	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.157	U	mg/kg dry	0.535	0.157	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**13.5**		mg/kg dry	1.07	0.231	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0744**		mg/kg dry	0.0321	0.0016	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**32.6**		mg/kg dry	1.60	0.592	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.460	U	mg/kg dry	1.60	0.460	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**85.0**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6 (4-5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:00	16-Nov-13
SB80494-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.57 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.8	UJL	µg/kg dry	6.3	3.8	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 60.1	UJL	µg/kg dry	63.2	60.1	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.2	UJL	µg/kg dry	6.3	6.2	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	6.3	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.8	UJL	µg/kg dry	6.3	1.8	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.5	UJL	µg/kg dry	6.3	5.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.7	UJL	µg/kg dry	6.3	4.7	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.2	UJL	µg/kg dry	12.6	11.2	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.4	UJL	µg/kg dry	63.2	19.4	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.4	UJL	µg/kg dry	6.3	4.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.6	UJL	µg/kg dry	6.3	1.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.0	UJL	µg/kg dry	12.6	9.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.1	UJL	µg/kg dry	12.6	4.1	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.7	UJL	µg/kg dry	6.3	4.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.4	UJL	µg/kg dry	12.6	6.4	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.0	UJL	µg/kg dry	6.3	2.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.9	UJL	µg/kg dry	6.3	2.9	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.2	UJL	µg/kg dry	12.6	12.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.8	UJL	µg/kg dry	6.3	4.8	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.3	UJL	µg/kg dry	6.3	4.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.1	UJL	µg/kg dry	6.3	2.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.4	UJL	µg/kg dry	6.3	2.4	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.1	UJL	µg/kg dry	12.6	3.1	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.2	UJL	µg/kg dry	6.3	6.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.1	UJL	µg/kg dry	6.3	4.1	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.4	UJL	µg/kg dry	6.3	5.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.6	UJL	µg/kg dry	6.3	2.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.4	UJL	µg/kg dry	6.3	2.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.3	UJL	µg/kg dry	6.3	2.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.8	UJL	µg/kg dry	6.3	3.8	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.9	UJL	µg/kg dry	6.3	3.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6 (4-5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:00	16-Nov-13
SB80494-03				

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: 4.57 g							
87-68-3	Hexachlorobutadiene	< 6.3	UJL	µg/kg dry	6.3	6.3	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 14.7	UJL	µg/kg dry	63.2	14.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.4	UJL	µg/kg dry	6.3	1.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.0	UJL	µg/kg dry	6.3	3.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.0	UJL	µg/kg dry	6.3	4.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 26.0	UJL	µg/kg dry	63.2	26.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**12.9**	JL, O01	µg/kg dry	12.6	5.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.5	UJL	µg/kg dry	6.3	2.5	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.9	UJL	µg/kg dry	6.3	1.9	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.1	UJL	µg/kg dry	6.3	3.1	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.9	UJL	µg/kg dry	6.3	5.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.0	UJL	µg/kg dry	6.3	4.0	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.3	UJL	µg/kg dry	6.3	4.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.5	UJL	µg/kg dry	6.3	4.5	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.9	UJL	µg/kg dry	6.3	4.9	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.5	UJL	µg/kg dry	6.3	4.5	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.9	UJL	µg/kg dry	6.3	4.9	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.5	UJL	µg/kg dry	6.3	4.5	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.9	UJL	µg/kg dry	6.3	3.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.7	UJL	µg/kg dry	6.3	2.7	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.3	UJL	µg/kg dry	6.3	5.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.2	UJL	µg/kg dry	6.3	2.2	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.5	UJL	µg/kg dry	6.3	2.5	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.8	UJL	µg/kg dry	6.3	3.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.5	UJL	µg/kg dry	12.6	8.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.6	UJL	µg/kg dry	6.3	1.6	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.2	UJL	µg/kg dry	12.6	6.2	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.6	UJL	µg/kg dry	6.3	1.6	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.5	UJL	µg/kg dry	6.3	2.5	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.3	UJL	µg/kg dry	6.3	3.3	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 62.2	UJL	µg/kg dry	63.2	62.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 112	UJL	µg/kg dry	126	112	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 10.8	UJL	µg/kg dry	31.6	10.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 413	UJL	µg/kg dry	2530	413	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-6 (4-5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:00	16-Nov-13
SB80494-03				

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	< 45.2	U	µg/kg dry	178	45.2	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 49.3	U	µg/kg dry	178	49.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 45.4	U	µg/kg dry	178	45.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 47.6	U	µg/kg dry	178	47.6	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 48.5	U	µg/kg dry	178	48.5	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 38.7	U	µg/kg dry	178	38.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 49.5	U	µg/kg dry	178	49.5	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 63.0	U	µg/kg dry	178	63.0	1	"	"	"	"	"	X
218-01-9	Chrysene	< 50.2	U	µg/kg dry	178	50.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 46.0	U	µg/kg dry	178	46.0	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 49.7	U	µg/kg dry	178	49.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 49.5	U	µg/kg dry	178	49.5	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 49.3	U	µg/kg dry	178	49.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 52.5	U	µg/kg dry	178	52.5	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 50.8	U	µg/kg dry	178	50.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 49.7	U	µg/kg dry	178	49.7	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 47.5	U	µg/kg dry	178	47.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 43.0	U	µg/kg dry	178	43.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*88*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*95*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.449	U	mg/kg dry	1.56	0.449	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**3.96**		mg/kg dry	1.56	0.679	1	"	"	"	"	"	X
7440-39-3	Barium	**32.1**		mg/kg dry	1.04	0.334	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.153	U	mg/kg dry	0.519	0.153	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**14.9**		mg/kg dry	1.04	0.224	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0289**	J	mg/kg dry	0.0318	0.0016	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**9.03**		mg/kg dry	1.56	0.574	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.447	U	mg/kg dry	1.56	0.447	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.5**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-8 (4-4.5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:10	16-Nov-13
SB80494-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.46 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.2	UJL	µg/kg dry	5.4	3.2	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 51.3	UJL	µg/kg dry	54.0	51.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.3	UJL	µg/kg dry	5.4	5.3	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.8	UJL	µg/kg dry	5.4	1.8	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.5	UJL	µg/kg dry	5.4	1.5	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.7	UJL	µg/kg dry	5.4	4.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.0	UJL	µg/kg dry	5.4	4.0	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.9	UJL	µg/kg dry	5.4	2.9	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.6	UJL	µg/kg dry	10.8	9.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 16.5	UJL	µg/kg dry	54.0	16.5	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.8	UJL	µg/kg dry	5.4	3.8	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.4	UJL	µg/kg dry	5.4	2.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.4	UJL	µg/kg dry	5.4	1.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.7	UJL	µg/kg dry	10.8	7.7	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.0	UJL	µg/kg dry	5.4	4.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.9	UJL	µg/kg dry	5.4	2.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.5	UJL	µg/kg dry	10.8	3.5	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.0	UJL	µg/kg dry	5.4	4.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.5	UJL	µg/kg dry	10.8	5.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.7	UJL	µg/kg dry	5.4	1.7	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.5	UJL	µg/kg dry	5.4	2.5	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.4	UJL	µg/kg dry	10.8	10.4	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.9	UJL	µg/kg dry	5.4	3.9	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.1	UJL	µg/kg dry	5.4	4.1	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.7	UJL	µg/kg dry	5.4	3.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.8	UJL	µg/kg dry	5.4	1.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.4	UJL	µg/kg dry	5.4	2.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.0	UJL	µg/kg dry	5.4	2.0	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.7	UJL	µg/kg dry	10.8	2.7	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.3	UJL	µg/kg dry	5.4	5.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.5	UJL	µg/kg dry	5.4	3.5	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.9	UJL	µg/kg dry	5.4	2.9	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.3	UJL	µg/kg dry	5.4	2.3	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.6	UJL	µg/kg dry	5.4	4.6	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.9	UJL	µg/kg dry	5.4	2.9	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.0	UJL	µg/kg dry	5.4	4.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.2	UJL	µg/kg dry	5.4	2.2	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.1	UJL	µg/kg dry	5.4	2.1	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.9	UJL	µg/kg dry	5.4	1.9	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.2	UJL	µg/kg dry	5.4	3.2	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.3	UJL	µg/kg dry	5.4	3.3	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-8 (4-4.5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:10	16-Nov-13
SB80494-04				

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: 5.46 g							
87-68-3	Hexachlorobutadiene	< 5.4	UJL	µg/kg dry	5.4	5.4	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 12.6	UJL	µg/kg dry	54.0	12.6	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.2	UJL	µg/kg dry	5.4	1.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.5	UJL	µg/kg dry	5.4	2.5	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.4	UJL	µg/kg dry	5.4	3.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 22.2	UJL	µg/kg dry	54.0	22.2	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**9.1**	JL, O01	µg/kg dry	10.8	4.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.4	UJL	µg/kg dry	5.4	2.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.1	UJL	µg/kg dry	5.4	2.1	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.6	UJL	µg/kg dry	5.4	1.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.7	UJL	µg/kg dry	5.4	2.7	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0	UJL	µg/kg dry	5.4	5.0	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.4	UJL	µg/kg dry	5.4	3.4	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.7	UJL	µg/kg dry	5.4	3.7	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.8	UJL	µg/kg dry	5.4	3.8	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.2	UJL	µg/kg dry	5.4	4.2	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.8	UJL	µg/kg dry	5.4	3.8	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.2	UJL	µg/kg dry	5.4	4.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.9	UJL	µg/kg dry	5.4	3.9	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.4	UJL	µg/kg dry	5.4	3.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.3	UJL	µg/kg dry	5.4	2.3	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.5	UJL	µg/kg dry	5.4	4.5	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.8	UJL	µg/kg dry	5.4	1.8	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.1	UJL	µg/kg dry	5.4	2.1	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.3	UJL	µg/kg dry	5.4	3.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.3	UJL	µg/kg dry	10.8	7.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.4	UJL	µg/kg dry	5.4	1.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.3	UJL	µg/kg dry	10.8	5.3	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.9	UJL	µg/kg dry	5.4	3.9	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.3	UJL	µg/kg dry	5.4	1.3	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.2	UJL	µg/kg dry	5.4	2.2	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.8	UJL	µg/kg dry	5.4	2.8	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 53.1	UJL	µg/kg dry	54.0	53.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 95.9	UJL	µg/kg dry	108	95.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 9.2	UJL	µg/kg dry	27.0	9.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 353	UJL	µg/kg dry	2160	353	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*100*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-8 (4-4.5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:10	16-Nov-13
SB80494-04				

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	< 44.9	U	µg/kg dry	177	44.9	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 48.9	U	µg/kg dry	177	48.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 45.0	U	µg/kg dry	177	45.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 47.3	U	µg/kg dry	177	47.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 48.1	U	µg/kg dry	177	48.1	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 38.4	U	µg/kg dry	177	38.4	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 49.1	U	µg/kg dry	177	49.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 62.5	U	µg/kg dry	177	62.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 49.8	U	µg/kg dry	177	49.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 45.6	U	µg/kg dry	177	45.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 49.4	U	µg/kg dry	177	49.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 49.1	U	µg/kg dry	177	49.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 49.0	U	µg/kg dry	177	49.0	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 52.1	U	µg/kg dry	177	52.1	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 50.4	U	µg/kg dry	177	50.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 49.3	U	µg/kg dry	177	49.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 47.1	U	µg/kg dry	177	47.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 42.7	U	µg/kg dry	177	42.7	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*66*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*82*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.442	U	mg/kg dry	1.54	0.442	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**11.7**		mg/kg dry	1.54	0.670	1	"	"	"	"	"	X
7440-39-3	Barium	**190**		mg/kg dry	1.02	0.330	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.151	R01, U	mg/kg dry	0.615	0.151	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**17.7**		mg/kg dry	1.02	0.221	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0412**		mg/kg dry	0.0296	0.0015	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**20.9**		mg/kg dry	1.54	0.566	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	**4.60**		mg/kg dry	1.54	0.440	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10 (1-1.5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:30	16-Nov-13
SB80494-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.52 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.8	UJL	µg/kg dry	6.3	3.8	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 60.2	UJL	µg/kg dry	63.3	60.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.2	UJL	µg/kg dry	6.3	6.2	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.2	UJL	µg/kg dry	6.3	2.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.8	UJL	µg/kg dry	6.3	1.8	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.5	UJL	µg/kg dry	6.3	5.5	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.7	UJL	µg/kg dry	6.3	4.7	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.2	UJL	µg/kg dry	12.7	11.2	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.4	UJL	µg/kg dry	63.3	19.4	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.4	UJL	µg/kg dry	6.3	4.4	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.6	UJL	µg/kg dry	6.3	1.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.0	UJL	µg/kg dry	12.7	9.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.2	UJL	µg/kg dry	12.7	4.2	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.7	UJL	µg/kg dry	6.3	4.7	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.5	UJL	µg/kg dry	12.7	6.5	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.0	UJL	µg/kg dry	6.3	2.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.9	UJL	µg/kg dry	6.3	2.9	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.2	UJL	µg/kg dry	12.7	12.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.8	UJL	µg/kg dry	6.3	4.8	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.3	UJL	µg/kg dry	6.3	4.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.1	UJL	µg/kg dry	6.3	2.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.4	UJL	µg/kg dry	6.3	2.4	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.1	UJL	µg/kg dry	12.7	3.1	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.2	UJL	µg/kg dry	6.3	6.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.2	UJL	µg/kg dry	6.3	4.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.4	UJL	µg/kg dry	6.3	5.4	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.4	UJL	µg/kg dry	6.3	3.4	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.6	UJL	µg/kg dry	6.3	2.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.4	UJL	µg/kg dry	6.3	2.4	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.3	UJL	µg/kg dry	6.3	2.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.8	UJL	µg/kg dry	6.3	3.8	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.9	UJL	µg/kg dry	6.3	3.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10 (1-1.5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:30	16-Nov-13
SB80494-05				

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: 5.52 g							
87-68-3	Hexachlorobutadiene	< 6.3	UJL	µg/kg dry	6.3	6.3	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 14.7	UJL	µg/kg dry	63.3	14.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.4	UJL	µg/kg dry	6.3	1.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.0	UJL	µg/kg dry	6.3	3.0	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.0	UJL	µg/kg dry	6.3	4.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 26.0	UJL	µg/kg dry	63.3	26.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**13.0**	O01, JL	µg/kg dry	12.7	5.2	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.8	UJL	µg/kg dry	6.3	2.8	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.5	UJL	µg/kg dry	6.3	2.5	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.9	UJL	µg/kg dry	6.3	1.9	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.1	UJL	µg/kg dry	6.3	3.1	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.9	UJL	µg/kg dry	6.3	5.9	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.0	UJL	µg/kg dry	6.3	4.0	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.3	UJL	µg/kg dry	6.3	4.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.5	UJL	µg/kg dry	6.3	4.5	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.9	UJL	µg/kg dry	6.3	4.9	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.5	UJL	µg/kg dry	6.3	4.5	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.9	UJL	µg/kg dry	6.3	4.9	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.5	UJL	µg/kg dry	6.3	4.5	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.9	UJL	µg/kg dry	6.3	3.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.7	UJL	µg/kg dry	6.3	2.7	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.3	UJL	µg/kg dry	6.3	5.3	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.2	UJL	µg/kg dry	6.3	2.2	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.5	UJL	µg/kg dry	6.3	2.5	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.8	UJL	µg/kg dry	6.3	3.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.5	UJL	µg/kg dry	12.7	8.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.6	UJL	µg/kg dry	6.3	1.6	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.2	UJL	µg/kg dry	12.7	6.2	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.6	UJL	µg/kg dry	6.3	4.6	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.6	UJL	µg/kg dry	6.3	1.6	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.5	UJL	µg/kg dry	6.3	2.5	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.3	UJL	µg/kg dry	6.3	3.3	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 62.2	UJL	µg/kg dry	63.3	62.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 112	UJL	µg/kg dry	127	112	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 10.8	UJL	µg/kg dry	31.6	10.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 414	UJL	µg/kg dry	2530	414	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-10 (1-1.5)	New 7426.P2	Soil/Sediment	14-Nov-13 11:30	16-Nov-13
SB80494-05				

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	< 50.3	U	µg/kg dry	198	50.3	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 54.8	U	µg/kg dry	198	54.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 50.4	U	µg/kg dry	198	50.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**106**	J	µg/kg dry	198	53.0	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**75.1**	J	µg/kg dry	198	53.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**55.7**	J	µg/kg dry	198	43.0	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 55.1	U	µg/kg dry	198	55.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 70.1	U	µg/kg dry	198	70.1	1	"	"	"	"	"	X
218-01-9	Chrysene	**109**	J	µg/kg dry	198	55.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 51.1	U	µg/kg dry	198	51.1	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**153**	J	µg/kg dry	198	55.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 55.0	U	µg/kg dry	198	55.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 54.9	U	µg/kg dry	198	54.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 58.4	U	µg/kg dry	198	58.4	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 56.5	U	µg/kg dry	198	56.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 55.2	U	µg/kg dry	198	55.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**83.4**	J	µg/kg dry	198	52.8	1	"	"	"	"	"	X
129-00-0	Pyrene	**192**	J	µg/kg dry	198	47.8	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*72*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.482	U	mg/kg dry	1.67	0.482	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**4.84**		mg/kg dry	1.67	0.730	1	"	"	"	"	"	X
7440-39-3	Barium	**56.3**		mg/kg dry	1.12	0.359	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.164	U	mg/kg dry	0.558	0.164	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**14.3**		mg/kg dry	1.12	0.241	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0633**		mg/kg dry	0.0316	0.0016	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**117**		mg/kg dry	1.67	0.617	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.480	U	mg/kg dry	1.67	0.480	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**84.1**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 (1.5-3)	New 7426.P2	Soil/Sediment	14-Nov-13 11:40	16-Nov-13
SB80494-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.43 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.7	UJL	µg/kg dry	6.1	3.7	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 58.2	UJL	µg/kg dry	61.2	58.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.0	UJL	µg/kg dry	6.1	6.0	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.1	UJL	µg/kg dry	6.1	2.1	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.7	UJL	µg/kg dry	6.1	1.7	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.3	UJL	µg/kg dry	6.1	5.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.3	UJL	µg/kg dry	6.1	3.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.9	UJL	µg/kg dry	12.2	10.9	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 18.8	UJL	µg/kg dry	61.2	18.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.3	UJL	µg/kg dry	6.1	4.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.7	UJL	µg/kg dry	6.1	2.7	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.6	UJL	µg/kg dry	6.1	1.6	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.8	UJL	µg/kg dry	12.2	8.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.3	UJL	µg/kg dry	6.1	3.3	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.0	UJL	µg/kg dry	12.2	4.0	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.2	UJL	µg/kg dry	12.2	6.2	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.9	UJL	µg/kg dry	6.1	1.9	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.8	UJL	µg/kg dry	6.1	2.8	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.8	UJL	µg/kg dry	12.2	11.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.6	UJL	µg/kg dry	6.1	4.6	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.1	UJL	µg/kg dry	6.1	4.1	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.1	UJL	µg/kg dry	6.1	2.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.7	UJL	µg/kg dry	6.1	2.7	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.3	UJL	µg/kg dry	6.1	2.3	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.0	UJL	µg/kg dry	12.2	3.0	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.0	UJL	µg/kg dry	6.1	6.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.0	UJL	µg/kg dry	6.1	4.0	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.3	UJL	µg/kg dry	6.1	3.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.7	UJL	µg/kg dry	6.1	2.7	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.2	UJL	µg/kg dry	6.1	5.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.2	UJL	µg/kg dry	6.1	3.2	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.5	UJL	µg/kg dry	6.1	4.5	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.5	UJL	µg/kg dry	6.1	2.5	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.3	UJL	µg/kg dry	6.1	2.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.2	UJL	µg/kg dry	6.1	2.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 (1.5-3)	New 7426.P2	Soil/Sediment	14-Nov-13 11:40	16-Nov-13
SB80494-06				

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: 5.43 g							
87-68-3	Hexachlorobutadiene	< 6.1	UJL	µg/kg dry	6.1	6.1	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 14.2	UJL	µg/kg dry	61.2	14.2	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.3	UJL	µg/kg dry	6.1	1.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.9	UJL	µg/kg dry	6.1	2.9	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.8	UJL	µg/kg dry	6.1	3.8	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 25.2	UJL	µg/kg dry	61.2	25.2	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**12.6**	JL, O01	µg/kg dry	12.2	5.0	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.4	UJL	µg/kg dry	6.1	2.4	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.8	UJL	µg/kg dry	6.1	1.8	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.0	UJL	µg/kg dry	6.1	3.0	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.7	UJL	µg/kg dry	6.1	5.7	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.8	UJL	µg/kg dry	6.1	3.8	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.2	UJL	µg/kg dry	6.1	4.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.3	UJL	µg/kg dry	6.1	4.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.7	UJL	µg/kg dry	6.1	4.7	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.3	UJL	µg/kg dry	6.1	4.3	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.7	UJL	µg/kg dry	6.1	4.7	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.4	UJL	µg/kg dry	6.1	4.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.8	UJL	µg/kg dry	6.1	3.8	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.6	UJL	µg/kg dry	6.1	2.6	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.1	UJL	µg/kg dry	6.1	5.1	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.1	UJL	µg/kg dry	6.1	2.1	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.4	UJL	µg/kg dry	6.1	2.4	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.7	UJL	µg/kg dry	6.1	3.7	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.2	UJL	µg/kg dry	12.2	8.2	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.5	UJL	µg/kg dry	6.1	1.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.0	UJL	µg/kg dry	12.2	6.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.4	UJL	µg/kg dry	6.1	4.4	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.5	UJL	µg/kg dry	6.1	1.5	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.4	UJL	µg/kg dry	6.1	2.4	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.2	UJL	µg/kg dry	6.1	3.2	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 60.2	UJL	µg/kg dry	61.2	60.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 109	UJL	µg/kg dry	122	109	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 10.5	UJL	µg/kg dry	30.6	10.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400	UJL	µg/kg dry	2450	400	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*114*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 (1.5-3)	New 7426.P2	Soil/Sediment	14-Nov-13 11:40	16-Nov-13
SB80494-06				

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			GS1										
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	**4,150**	D	µg/kg dry	1900	484	10	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 527	U, D	µg/kg dry	1900	527	10	"	"	"	"	"	X
120-12-7	Anthracene	**6,970**	D	µg/kg dry	1900	485	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**12,200**	D	µg/kg dry	1900	509	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**8,460**	D	µg/kg dry	1900	518	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**5,430**	D	µg/kg dry	1900	413	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**2,810**	D	µg/kg dry	1900	529	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**4,320**	D	µg/kg dry	1900	674	10	"	"	"	"	"	X
218-01-9	Chrysene	**12,900**	D	µg/kg dry	1900	537	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	**1,020**	J, D	µg/kg dry	1900	491	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**17,700**	D	µg/kg dry	1900	532	10	"	"	"	"	"	X
86-73-7	Fluorene	**3,020**	D	µg/kg dry	1900	529	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**2,660**	D	µg/kg dry	1900	528	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 561	U, D	µg/kg dry	1900	561	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**832**	D, J	µg/kg dry	1900	543	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 531	U, D	µg/kg dry	1900	531	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**31,500**	D	µg/kg dry	1900	508	10	"	"	"	"	"	X
129-00-0	Pyrene	**36,500**	D	µg/kg dry	1900	460	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*52*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*51*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.465	U	mg/kg dry	1.61	0.465	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**4.40**		mg/kg dry	1.61	0.704	1	"	"	"	"	"	X
7440-39-3	Barium	**56.6**		mg/kg dry	1.08	0.347	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.158	U	mg/kg dry	0.538	0.158	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**12.7**		mg/kg dry	1.08	0.232	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0464**		mg/kg dry	0.0340	0.0017	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**76.4**		mg/kg dry	1.61	0.595	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.463	U	mg/kg dry	1.61	0.463	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**86.4**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12	New 7426.P2	Ground Water	14-Nov-13 11:45	16-Nov-13
SB80494-07				

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 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.65	U	µg/l	1.00	0.65	1	SW846 8260C	20-Nov-13	20-Nov-13	naa	1328230	X
67-64-1	Acetone	**6.06**	J	µg/l	10.0	2.56	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.48	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
71-43-2	Benzene	< 0.67	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 0.72	U	µg/l	1.00	0.72	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 0.71	U	µg/l	1.00	0.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.48	U	µg/l	0.50	0.48	1	"	"	"	"	"	X
75-25-2	Bromoform	< 0.60	U	µg/l	1.00	0.60	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 1.14	U	µg/l	2.00	1.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 1.93	U	µg/l	10.0	1.93	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 0.56	U	µg/l	1.00	0.56	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 0.82	U	µg/l	1.00	0.82	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 0.74	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1.28	U	µg/l	2.00	1.28	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 0.55	U	µg/l	1.00	0.55	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 0.65	U	µg/l	1.00	0.65	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 1.00	U	µg/l	2.00	1.00	1	"	"	"	"	"	X
67-66-3	Chloroform	< 0.69	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 1.47	U	µg/l	2.00	1.47	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 0.79	U	µg/l	1.00	0.79	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 0.73	U	µg/l	1.00	0.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1.20	U	µg/l	2.00	1.20	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.34	U	µg/l	0.50	0.34	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.36	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 0.67	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 0.67	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 0.71	U	µg/l	1.00	0.71	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 0.62	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 0.45	U	µg/l	2.00	0.45	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 0.68	U	µg/l	1.00	0.68	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 0.78	U	µg/l	1.00	0.78	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 0.49	U	µg/l	1.00	0.49	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 0.72	U	µg/l	1.00	0.72	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 0.83	U	µg/l	1.00	0.83	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 0.77	U	µg/l	1.00	0.77	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 0.81	U	µg/l	1.00	0.81	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 0.87	U	µg/l	1.00	0.87	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 0.64	U	µg/l	1.00	0.64	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.36	U	µg/l	0.50	0.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50	0.50	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 0.95	U	µg/l	1.00	0.95	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.49	U	µg/l	0.50	0.49	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 0.66	U	µg/l	10.0	0.66	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12	New 7426.P2	Ground Water	14-Nov-13 11:45	16-Nov-13
SB80494-07				

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 5030 Water MS													
98-82-8	Isopropylbenzene	< 0.62	U	µg/l	1.00	0.62	1	SW846 8260C	20-Nov-13	20-Nov-13	naa	1328230	X
99-87-6	4-Isopropyltoluene	< 0.61	U	µg/l	1.00	0.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 0.65	U	µg/l	1.00	0.65	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2.76	U	µg/l	10.0	2.76	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 0.95	U	µg/l	2.00	0.95	1	"	"	"	"	"	X
91-20-3	Naphthalene	**1.70**		µg/l	1.00	0.58	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 0.76	U	µg/l	1.00	0.76	1	"	"	"	"	"	X
100-42-5	Styrene	< 0.62	U	µg/l	1.00	0.62	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 0.67	U	µg/l	1.00	0.67	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.32	U	µg/l	0.50	0.32	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 0.74	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
108-88-3	Toluene	< 0.81	U	µg/l	1.00	0.81	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 0.38	U	µg/l	1.00	0.38	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 0.36	U	µg/l	1.00	0.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 0.78	U	µg/l	1.00	0.78	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 0.58	U	µg/l	1.00	0.58	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 0.64	U	µg/l	1.00	0.64	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 0.76	U	µg/l	1.00	0.76	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 0.63	U	µg/l	1.00	0.63	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 0.74	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 0.76	U	µg/l	1.00	0.76	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 0.74	U	µg/l	1.00	0.74	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 0.81	U	µg/l	1.00	0.81	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 1.64	U	µg/l	2.00	1.64	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 0.88	U	µg/l	1.00	0.88	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1.44	U	µg/l	2.00	1.44	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 0.69	U	µg/l	1.00	0.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 0.72	U	µg/l	1.00	0.72	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 0.78	U	µg/l	1.00	0.78	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 0.73	U	µg/l	1.00	0.73	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 8.64	U	µg/l	10.0	8.64	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 12.0	U	µg/l	20.0	12.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 0.74	U	µg/l	5.00	0.74	1	"	"	"	"	"	X
64-17-5	Ethanol	< 35.0	U	µg/l	400	35.0	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*86*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*121*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
PAHs by SW846 8270													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12	New 7426.P2	Ground Water	14-Nov-13 11:45	16-Nov-13
SB80494-07				

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 3510C													
83-32-9	Acenaphthene	**5.89**		µg/l	5.26	0.947	1	SW846 8270D	19-Nov-13	25-Nov-13	MSL	1328090	X
208-96-8	Acenaphthylene	< 0.916	U	µg/l	5.26	0.916	1	"	"	"	"	"	X
120-12-7	Anthracene	**2.22**	J	µg/l	5.26	0.947	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**2.21**	J	µg/l	5.26	1.25	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**1.57**	J	µg/l	5.26	0.916	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 0.895	U	µg/l	5.26	0.895	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 0.947	U	µg/l	5.26	0.947	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1.17	U	µg/l	5.26	1.17	1	"	"	"	"	"	X
218-01-9	Chrysene	**2.54**	J	µg/l	5.26	1.20	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 0.979	U	µg/l	5.26	0.979	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**2.55**	J	µg/l	5.26	1.01	1	"	"	"	"	"	X
86-73-7	Fluorene	**2.71**	J	µg/l	5.26	0.947	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 0.968	U	µg/l	5.26	0.968	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	**1.85**	J	µg/l	5.26	0.979	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	**2.38**	J	µg/l	5.26	0.958	1	"	"	"	"	"	X
91-20-3	Naphthalene	**1.44**	J	µg/l	5.26	0.937	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**9.69**		µg/l	5.26	0.916	1	"	"	"	"	"	X
129-00-0	Pyrene	**6.30**		µg/l	5.26	1.35	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*55*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*79*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			BJW	1328126	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0017	R01, U	mg/l	0.0110	0.0017	1	SW846 6010C	21-Nov-13	22-Nov-13	arf	1328346	X
7440-38-2	Arsenic	**0.0818**		mg/l	0.0080	0.0036	1	"	"	"	"	"	X
7440-39-3	Barium	**0.695**		mg/l	0.0100	0.0014	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0016	R01, U	mg/l	0.0065	0.0016	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.420**		mg/l	0.0100	0.0019	1	"	"	"	"	"	X
7439-92-1	Lead	**2.26**		mg/l	0.0150	0.0040	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0060	U	mg/l	0.0300	0.0060	1	"	"	"	"	"	X
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	**0.00031**		mg/l	0.00020	0.00008	1	EPA 245.1/7470A	21-Nov-13	22-Nov-13	LR	1328348	X
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**0.00**	HT2, U	N/A			1	EPA 200.7/3005A/6010	19-Nov-13 11:30	19-Nov-13 11:30	BJW	1328125	
Soluble Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0017	U	mg/l	0.0100	0.0017	1	SW846 6010C	21-Nov-13	22-Nov-13	arf	1328374	X
7440-38-2	Arsenic	< 0.0036	U	mg/l	0.0080	0.0036	1	"	"	"	"	"	X
7440-39-3	Barium	**0.0118**		mg/l	0.0100	0.0014	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0016	U	mg/l	0.0050	0.0016	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0019**	J	mg/l	0.0100	0.0019	1	"	"	"	"	"	X
7439-92-1	Lead	< 0.0040	U	mg/l	0.0150	0.0040	1	"	"	"	"	"	X
7782-49-2	Selenium	< 0.0060	U	mg/l	0.0300	0.0060	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-12 SB80494-07	New 7426.P2	Ground Water	14-Nov-13 11:45	16-Nov-13

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00008	R01, U	mg/l	0.00030	0.00008	1	EPA 245.1/7470A	21-Nov-13	22-Nov-13	LR	1328375	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 (8-10)	New 7426.P2	Soil/Sediment	14-Nov-13 12:20	16-Nov-13
SB80494-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.04 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.3	UJL	µg/kg dry	5.5	3.3	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 52.0	UJL	µg/kg dry	54.7	52.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.4	UJL	µg/kg dry	5.5	5.4	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.9	UJL	µg/kg dry	5.5	1.9	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.5	UJL	µg/kg dry	5.5	1.5	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.8	UJL	µg/kg dry	5.5	4.8	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.0	UJL	µg/kg dry	5.5	4.0	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.0	UJL	µg/kg dry	5.5	3.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.7	UJL	µg/kg dry	10.9	9.7	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 16.8	UJL	µg/kg dry	54.7	16.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.8	UJL	µg/kg dry	5.5	3.8	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.4	UJL	µg/kg dry	5.5	2.4	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.4	UJL	µg/kg dry	5.5	1.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.8	UJL	µg/kg dry	10.9	7.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.0	UJL	µg/kg dry	5.5	4.0	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.0	UJL	µg/kg dry	5.5	3.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.6	UJL	µg/kg dry	10.9	3.6	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.0	UJL	µg/kg dry	5.5	4.0	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.6	UJL	µg/kg dry	10.9	5.6	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.7	UJL	µg/kg dry	5.5	1.7	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.5	UJL	µg/kg dry	5.5	2.5	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.5	UJL	µg/kg dry	10.9	10.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.0	UJL	µg/kg dry	5.5	4.0	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.1	UJL	µg/kg dry	5.5	4.1	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.7	UJL	µg/kg dry	5.5	3.7	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.8	UJL	µg/kg dry	5.5	1.8	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.4	UJL	µg/kg dry	5.5	2.4	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.1	UJL	µg/kg dry	5.5	2.1	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.7	UJL	µg/kg dry	10.9	2.7	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.3	UJL	µg/kg dry	5.5	5.3	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.6	UJL	µg/kg dry	5.5	3.6	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.9	UJL	µg/kg dry	5.5	2.9	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.4	UJL	µg/kg dry	5.5	2.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.6	UJL	µg/kg dry	5.5	4.6	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.9	UJL	µg/kg dry	5.5	2.9	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.0	UJL	µg/kg dry	5.5	4.0	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.2	UJL	µg/kg dry	5.5	2.2	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.1	UJL	µg/kg dry	5.5	2.1	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.0	UJL	µg/kg dry	5.5	2.0	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 (8-10)	New 7426.P2	Soil/Sediment	14-Nov-13 12:20	16-Nov-13
SB80494-08				

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: 6.04 g							
87-68-3	Hexachlorobutadiene	< 5.4	UJL	µg/kg dry	5.5	5.4	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 12.7	UJL	µg/kg dry	54.7	12.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.2	UJL	µg/kg dry	5.5	1.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.6	UJL	µg/kg dry	5.5	2.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.4	UJL	µg/kg dry	5.5	3.4	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 22.5	UJL	µg/kg dry	54.7	22.5	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**10.4**	JL, O01	µg/kg dry	10.9	4.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.4	UJL	µg/kg dry	5.5	2.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.1	UJL	µg/kg dry	5.5	2.1	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.6	UJL	µg/kg dry	5.5	1.6	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.7	UJL	µg/kg dry	5.5	2.7	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.1	UJL	µg/kg dry	5.5	5.1	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.4	UJL	µg/kg dry	5.5	3.4	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.7	UJL	µg/kg dry	5.5	3.7	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.9	UJL	µg/kg dry	5.5	3.9	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.2	UJL	µg/kg dry	5.5	4.2	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.9	UJL	µg/kg dry	5.5	3.9	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.2	UJL	µg/kg dry	5.5	4.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.9	UJL	µg/kg dry	5.5	3.9	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.4	UJL	µg/kg dry	5.5	3.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.3	UJL	µg/kg dry	5.5	2.3	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.6	UJL	µg/kg dry	5.5	4.6	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.9	UJL	µg/kg dry	5.5	1.9	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.1	UJL	µg/kg dry	5.5	2.1	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.3	UJL	µg/kg dry	5.5	3.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.3	UJL	µg/kg dry	10.9	7.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.4	UJL	µg/kg dry	5.5	1.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.4	UJL	µg/kg dry	10.9	5.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.0	UJL	µg/kg dry	5.5	4.0	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.4	UJL	µg/kg dry	5.5	1.4	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.2	UJL	µg/kg dry	5.5	2.2	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.9	UJL	µg/kg dry	5.5	2.9	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 53.7	UJL	µg/kg dry	54.7	53.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 97.1	UJL	µg/kg dry	109	97.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 9.3	UJL	µg/kg dry	27.3	9.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 357	UJL	µg/kg dry	2190	357	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*111*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-13 (8-10)	New 7426.P2	Soil/Sediment	14-Nov-13 12:20	16-Nov-13
SB80494-08				

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	< 47.9	U	µg/kg dry	189	47.9	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 52.2	U	µg/kg dry	189	52.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 48.0	U	µg/kg dry	189	48.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 50.4	U	µg/kg dry	189	50.4	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 51.3	U	µg/kg dry	189	51.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 40.9	U	µg/kg dry	189	40.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 52.4	U	µg/kg dry	189	52.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 66.7	U	µg/kg dry	189	66.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 53.2	U	µg/kg dry	189	53.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 48.7	U	µg/kg dry	189	48.7	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 52.7	U	µg/kg dry	189	52.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 52.4	U	µg/kg dry	189	52.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 52.2	U	µg/kg dry	189	52.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 55.6	U	µg/kg dry	189	55.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 53.8	U	µg/kg dry	189	53.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 52.6	U	µg/kg dry	189	52.6	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 50.3	U	µg/kg dry	189	50.3	1	"	"	"	"	"	X
129-00-0	Pyrene	< 45.5	U	µg/kg dry	189	45.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*79*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.468	U	mg/kg dry	1.62	0.468	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**4.01**		mg/kg dry	1.62	0.708	1	"	"	"	"	"	X
7440-39-3	Barium	**35.6**		mg/kg dry	1.08	0.349	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.159	U	mg/kg dry	0.541	0.159	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**13.5**		mg/kg dry	1.08	0.234	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0214**	J	mg/kg dry	0.0322	0.0017	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**10.5**		mg/kg dry	1.62	0.599	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.466	U	mg/kg dry	1.62	0.466	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.3**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 (8-9)	New 7426.P2	Soil/Sediment	14-Nov-13 12:50	16-Nov-13
SB80494-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.87 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.9	UJL	µg/kg dry	6.5	3.9	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 62.0	UJL	µg/kg dry	65.2	62.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.4	UJL	µg/kg dry	6.5	6.4	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.2	UJL	µg/kg dry	6.5	2.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.8	UJL	µg/kg dry	6.5	1.8	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.7	UJL	µg/kg dry	6.5	5.7	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.8	UJL	µg/kg dry	6.5	4.8	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.5	UJL	µg/kg dry	6.5	3.5	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.6	UJL	µg/kg dry	13.0	11.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 20.0	UJL	µg/kg dry	65.2	20.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.5	UJL	µg/kg dry	6.5	4.5	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.9	UJL	µg/kg dry	6.5	2.9	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.7	UJL	µg/kg dry	6.5	1.7	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 9.3	UJL	µg/kg dry	13.0	9.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.8	UJL	µg/kg dry	6.5	4.8	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.5	UJL	µg/kg dry	6.5	3.5	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.3	UJL	µg/kg dry	13.0	4.3	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.8	UJL	µg/kg dry	6.5	4.8	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.7	UJL	µg/kg dry	13.0	6.7	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.0	UJL	µg/kg dry	6.5	2.0	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.0	UJL	µg/kg dry	6.5	3.0	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.6	UJL	µg/kg dry	13.0	12.6	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.8	UJL	µg/kg dry	6.5	4.8	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.9	UJL	µg/kg dry	6.5	4.9	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.4	UJL	µg/kg dry	6.5	4.4	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.2	UJL	µg/kg dry	6.5	2.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.9	UJL	µg/kg dry	6.5	2.9	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.5	UJL	µg/kg dry	6.5	2.5	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.2	UJL	µg/kg dry	13.0	3.2	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.4	UJL	µg/kg dry	6.5	6.4	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.3	UJL	µg/kg dry	6.5	4.3	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.5	UJL	µg/kg dry	6.5	3.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.8	UJL	µg/kg dry	6.5	2.8	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.5	UJL	µg/kg dry	6.5	5.5	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.5	UJL	µg/kg dry	6.5	3.5	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.8	UJL	µg/kg dry	6.5	4.8	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.6	UJL	µg/kg dry	6.5	2.6	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.5	UJL	µg/kg dry	6.5	2.5	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.3	UJL	µg/kg dry	6.5	2.3	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.9	UJL	µg/kg dry	6.5	3.9	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.0	UJL	µg/kg dry	6.5	4.0	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 (8-9)	New 7426.P2	Soil/Sediment	14-Nov-13 12:50	16-Nov-13
SB80494-09				

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: 4.87 g							
87-68-3	Hexachlorobutadiene	< 6.5	UJL	µg/kg dry	6.5	6.5	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 15.2	UJL	µg/kg dry	65.2	15.2	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.4	UJL	µg/kg dry	6.5	1.4	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.1	UJL	µg/kg dry	6.5	3.1	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.1	UJL	µg/kg dry	6.5	4.1	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 26.8	UJL	µg/kg dry	65.2	26.8	1	"	"	"	"	"	X
75-09-2	Methylene chloride	13.3	JL, O01	µg/kg dry	13.0	5.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.9	UJL	µg/kg dry	6.5	2.9	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.5	UJL	µg/kg dry	6.5	2.5	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.0	UJL	µg/kg dry	6.5	2.0	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.2	UJL	µg/kg dry	6.5	3.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.0	UJL	µg/kg dry	6.5	6.0	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.1	UJL	µg/kg dry	6.5	4.1	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.4	UJL	µg/kg dry	6.5	4.4	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.6	UJL	µg/kg dry	6.5	4.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.0	UJL	µg/kg dry	6.5	5.0	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.6	UJL	µg/kg dry	6.5	4.6	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.0	UJL	µg/kg dry	6.5	5.0	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.7	UJL	µg/kg dry	6.5	4.7	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.0	UJL	µg/kg dry	6.5	4.0	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.8	UJL	µg/kg dry	6.5	2.8	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.4	UJL	µg/kg dry	6.5	5.4	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.2	UJL	µg/kg dry	6.5	2.2	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.5	UJL	µg/kg dry	6.5	2.5	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.9	UJL	µg/kg dry	6.5	3.9	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 8.8	UJL	µg/kg dry	13.0	8.8	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.6	UJL	µg/kg dry	6.5	1.6	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.4	UJL	µg/kg dry	13.0	6.4	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.7	UJL	µg/kg dry	6.5	4.7	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.6	UJL	µg/kg dry	6.5	1.6	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.6	UJL	µg/kg dry	6.5	2.6	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.4	UJL	µg/kg dry	6.5	3.4	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 64.1	UJL	µg/kg dry	65.2	64.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 116	UJL	µg/kg dry	130	116	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 11.1	UJL	µg/kg dry	32.6	11.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 426	UJL	µg/kg dry	2610	426	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*110*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-16 (8-9)	New 7426.P2	Soil/Sediment	14-Nov-13 12:50	16-Nov-13
SB80494-09				

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													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 47.9	U	µg/kg dry	188	47.9	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 52.2	U	µg/kg dry	188	52.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 48.0	U	µg/kg dry	188	48.0	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 50.4	U	µg/kg dry	188	50.4	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 51.3	U	µg/kg dry	188	51.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 40.9	U	µg/kg dry	188	40.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 52.4	U	µg/kg dry	188	52.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 66.7	U	µg/kg dry	188	66.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 53.1	U	µg/kg dry	188	53.1	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 48.6	U	µg/kg dry	188	48.6	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 52.6	U	µg/kg dry	188	52.6	1	"	"	"	"	"	X
86-73-7	Fluorene	< 52.4	U	µg/kg dry	188	52.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 52.2	U	µg/kg dry	188	52.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 55.6	U	µg/kg dry	188	55.6	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 53.8	U	µg/kg dry	188	53.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 52.6	U	µg/kg dry	188	52.6	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 50.3	U	µg/kg dry	188	50.3	1	"	"	"	"	"	X
129-00-0	Pyrene	< 45.5	U	µg/kg dry	188	45.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*53*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*65*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.442	U	mg/kg dry	1.53	0.442	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**2.49**		mg/kg dry	1.53	0.669	1	"	"	"	"	"	X
7440-39-3	Barium	**38.9**		mg/kg dry	1.02	0.329	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.150	U	mg/kg dry	0.512	0.150	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**12.7**		mg/kg dry	1.02	0.221	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0229**	J	mg/kg dry	0.0328	0.0017	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**9.76**		mg/kg dry	1.53	0.566	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.440	U	mg/kg dry	1.53	0.440	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.0**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-17 (5-6)	New 7426.P2	Soil/Sediment	14-Nov-13 13:10	16-Nov-13
SB80494-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.52 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.5	UJL	µg/kg dry	5.8	3.5	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 55.1	UJL	µg/kg dry	57.9	55.1	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.7	UJL	µg/kg dry	5.8	5.7	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.0	UJL	µg/kg dry	5.8	2.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.6	UJL	µg/kg dry	5.8	1.6	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.0	UJL	µg/kg dry	5.8	5.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.3	UJL	µg/kg dry	5.8	4.3	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.2	UJL	µg/kg dry	5.8	3.2	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.3	UJL	µg/kg dry	11.6	10.3	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.8	UJL	µg/kg dry	57.9	17.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.0	UJL	µg/kg dry	5.8	4.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.5	UJL	µg/kg dry	5.8	1.5	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.3	UJL	µg/kg dry	11.6	8.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.3	UJL	µg/kg dry	5.8	4.3	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.8	UJL	µg/kg dry	11.6	3.8	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.3	UJL	µg/kg dry	5.8	4.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.9	UJL	µg/kg dry	11.6	5.9	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.8	UJL	µg/kg dry	5.8	1.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.2	UJL	µg/kg dry	11.6	11.2	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.4	UJL	µg/kg dry	5.8	4.4	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.9	UJL	µg/kg dry	5.8	3.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.9	UJL	µg/kg dry	5.8	1.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.2	UJL	µg/kg dry	5.8	2.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.9	UJL	µg/kg dry	11.6	2.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.7	UJL	µg/kg dry	5.8	5.7	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.8	UJL	µg/kg dry	5.8	3.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.5	UJL	µg/kg dry	5.8	2.5	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.9	UJL	µg/kg dry	5.8	4.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.2	UJL	µg/kg dry	5.8	2.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.1	UJL	µg/kg dry	5.8	2.1	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-17 (5-6)	New 7426.P2	Soil/Sediment	14-Nov-13 13:10	16-Nov-13
SB80494-10				

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: 5.52 g							
87-68-3	Hexachlorobutadiene	< 5.8	UJL	µg/kg dry	5.8	5.8	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 13.5	UJL	µg/kg dry	57.9	13.5	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.3	UJL	µg/kg dry	5.8	1.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.7	UJL	µg/kg dry	5.8	2.7	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.6	UJL	µg/kg dry	5.8	3.6	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 23.8	UJL	µg/kg dry	57.9	23.8	1	"	"	"	"	"	X
75-09-2	Methylene chloride	13.8	JL, O01	µg/kg dry	11.6	4.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.7	UJL	µg/kg dry	5.8	1.7	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.9	UJL	µg/kg dry	5.8	2.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.4	UJL	µg/kg dry	5.8	5.4	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.6	UJL	µg/kg dry	5.8	3.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.0	UJL	µg/kg dry	5.8	4.0	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.1	UJL	µg/kg dry	5.8	4.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.5	UJL	µg/kg dry	5.8	4.5	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.1	UJL	µg/kg dry	5.8	4.1	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.5	UJL	µg/kg dry	5.8	4.5	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.6	UJL	µg/kg dry	5.8	3.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.5	UJL	µg/kg dry	5.8	2.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.8	UJL	µg/kg dry	5.8	4.8	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.0	UJL	µg/kg dry	5.8	2.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.8	UJL	µg/kg dry	11.6	7.8	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.5	UJL	µg/kg dry	5.8	1.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.7	UJL	µg/kg dry	11.6	5.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.4	UJL	µg/kg dry	5.8	1.4	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.0	UJL	µg/kg dry	5.8	3.0	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 57.0	UJL	µg/kg dry	57.9	57.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 103	UJL	µg/kg dry	116	103	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 9.9	UJL	µg/kg dry	29.0	9.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 379	UJL	µg/kg dry	2320	379	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-17 (5-6)	New 7426.P2	Soil/Sediment	14-Nov-13 13:10	16-Nov-13
SB80494-10				

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	< 47.4	U	µg/kg dry	187	47.4	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 51.7	U	µg/kg dry	187	51.7	1	"	"	"	"	"	X
120-12-7	Anthracene	< 47.5	U	µg/kg dry	187	47.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 49.9	U	µg/kg dry	187	49.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 50.8	U	µg/kg dry	187	50.8	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 40.5	U	µg/kg dry	187	40.5	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 51.9	U	µg/kg dry	187	51.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 66.1	U	µg/kg dry	187	66.1	1	"	"	"	"	"	X
218-01-9	Chrysene	< 52.6	U	µg/kg dry	187	52.6	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 48.2	U	µg/kg dry	187	48.2	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 52.1	U	µg/kg dry	187	52.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 51.9	U	µg/kg dry	187	51.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 51.7	U	µg/kg dry	187	51.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 55.0	U	µg/kg dry	187	55.0	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 53.3	U	µg/kg dry	187	53.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 52.1	U	µg/kg dry	187	52.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 49.8	U	µg/kg dry	187	49.8	1	"	"	"	"	"	X
129-00-0	Pyrene	< 45.1	U	µg/kg dry	187	45.1	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*49*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*63*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.471	U	mg/kg dry	1.64	0.471	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**5.46**		mg/kg dry	1.64	0.713	1	"	"	"	"	"	X
7440-39-3	Barium	**35.0**		mg/kg dry	1.09	0.351	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.160	U	mg/kg dry	0.545	0.160	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**14.9**		mg/kg dry	1.09	0.235	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0303**	J	mg/kg dry	0.0331	0.0017	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**10.9**		mg/kg dry	1.64	0.603	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.469	U	mg/kg dry	1.64	0.469	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**88.3**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-20 (8-9)	New 7426.P2	Soil/Sediment	14-Nov-13 13:45	16-Nov-13
SB80494-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.16 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 4.3	UJL	µg/kg dry	7.1	4.3	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
67-64-1	Acetone	< 67.7	UJL	µg/kg dry	71.2	67.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.0	UJL	µg/kg dry	7.1	7.0	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.4	UJL	µg/kg dry	7.1	2.4	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.0	UJL	µg/kg dry	7.1	2.0	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.2	UJL	µg/kg dry	7.1	6.2	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.2	UJL	µg/kg dry	7.1	5.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.9	UJL	µg/kg dry	7.1	3.9	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.6	UJL	µg/kg dry	14.2	12.6	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 21.8	UJL	µg/kg dry	71.2	21.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.9	UJL	µg/kg dry	7.1	4.9	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.2	UJL	µg/kg dry	7.1	3.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.8	UJL	µg/kg dry	7.1	1.8	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.2	UJL	µg/kg dry	14.2	10.2	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.2	UJL	µg/kg dry	7.1	5.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.9	UJL	µg/kg dry	7.1	3.9	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.7	UJL	µg/kg dry	14.2	4.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.3	UJL	µg/kg dry	7.1	5.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 7.3	UJL	µg/kg dry	14.2	7.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.2	UJL	µg/kg dry	7.1	2.2	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.2	UJL	µg/kg dry	7.1	3.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.7	UJL	µg/kg dry	14.2	13.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.2	UJL	µg/kg dry	7.1	5.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.4	UJL	µg/kg dry	7.1	5.4	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 4.8	UJL	µg/kg dry	7.1	4.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.4	UJL	µg/kg dry	7.1	2.4	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.2	UJL	µg/kg dry	7.1	3.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.7	UJL	µg/kg dry	7.1	2.7	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.5	UJL	µg/kg dry	14.2	3.5	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.0	UJL	µg/kg dry	7.1	7.0	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 4.7	UJL	µg/kg dry	7.1	4.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.8	UJL	µg/kg dry	7.1	3.8	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.1	UJL	µg/kg dry	7.1	3.1	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.0	UJL	µg/kg dry	7.1	6.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.8	UJL	µg/kg dry	7.1	3.8	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.2	UJL	µg/kg dry	7.1	5.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.9	UJL	µg/kg dry	7.1	2.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.7	UJL	µg/kg dry	7.1	2.7	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.6	UJL	µg/kg dry	7.1	2.6	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 4.3	UJL	µg/kg dry	7.1	4.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 4.3	UJL	µg/kg dry	7.1	4.3	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-20 (8-9)	New 7426.P2	Soil/Sediment	14-Nov-13 13:45	16-Nov-13
SB80494-11				

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: 5.16 g							
87-68-3	Hexachlorobutadiene	< 7.1	UJL	µg/kg dry	7.1	7.1	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328192	X
591-78-6	2-Hexanone (MBK)	< 16.6	UJL	µg/kg dry	71.2	16.6	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.6	UJL	µg/kg dry	7.1	1.6	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.3	UJL	µg/kg dry	7.1	3.3	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 4.5	UJL	µg/kg dry	7.1	4.5	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 29.3	UJL	µg/kg dry	71.2	29.3	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**13.1**	JL, O01	µg/kg dry	14.2	5.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.2	UJL	µg/kg dry	7.1	3.2	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.8	UJL	µg/kg dry	7.1	2.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.1	UJL	µg/kg dry	7.1	2.1	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.5	UJL	µg/kg dry	7.1	3.5	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.6	UJL	µg/kg dry	7.1	6.6	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 4.5	UJL	µg/kg dry	7.1	4.5	1	"	"	"	"	"	X
108-88-3	Toluene	< 4.9	UJL	µg/kg dry	7.1	4.9	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.0	UJL	µg/kg dry	7.1	5.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.5	UJL	µg/kg dry	7.1	5.5	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.0	UJL	µg/kg dry	7.1	5.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.5	UJL	µg/kg dry	7.1	5.5	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.1	UJL	µg/kg dry	7.1	5.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 4.4	UJL	µg/kg dry	7.1	4.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.0	UJL	µg/kg dry	7.1	3.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.9	UJL	µg/kg dry	7.1	5.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.4	UJL	µg/kg dry	7.1	2.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.8	UJL	µg/kg dry	7.1	2.8	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 4.3	UJL	µg/kg dry	7.1	4.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 9.6	UJL	µg/kg dry	14.2	9.6	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.8	UJL	µg/kg dry	7.1	1.8	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.0	UJL	µg/kg dry	14.2	7.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.2	UJL	µg/kg dry	7.1	5.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.8	UJL	µg/kg dry	7.1	1.8	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.8	UJL	µg/kg dry	7.1	2.8	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.7	UJL	µg/kg dry	7.1	3.7	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 70.0	UJL	µg/kg dry	71.2	70.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 126	UJL	µg/kg dry	142	126	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 12.2	UJL	µg/kg dry	35.6	12.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 465	UJL	µg/kg dry	2850	465	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*112*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-20 (8-9)	New 7426.P2	Soil/Sediment	14-Nov-13 13:45	16-Nov-13
SB80494-11				

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													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 51.6	U	µg/kg dry	203	51.6	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 56.2	U	µg/kg dry	203	56.2	1	"	"	"	"	"	X
120-12-7	Anthracene	< 51.7	U	µg/kg dry	203	51.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 54.3	U	µg/kg dry	203	54.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 55.2	U	µg/kg dry	203	55.2	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 44.1	U	µg/kg dry	203	44.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 56.4	U	µg/kg dry	203	56.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 71.9	U	µg/kg dry	203	71.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 57.2	U	µg/kg dry	203	57.2	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 52.4	U	µg/kg dry	203	52.4	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 56.7	U	µg/kg dry	203	56.7	1	"	"	"	"	"	X
86-73-7	Fluorene	< 56.4	U	µg/kg dry	203	56.4	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 56.2	U	µg/kg dry	203	56.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 59.9	U	µg/kg dry	203	59.9	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 57.9	U	µg/kg dry	203	57.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 56.6	U	µg/kg dry	203	56.6	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 54.1	U	µg/kg dry	203	54.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 49.0	U	µg/kg dry	203	49.0	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*54*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*64*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.444	U	mg/kg dry	1.54	0.444	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**4.97**		mg/kg dry	1.54	0.672	1	"	"	"	"	"	X
7440-39-3	Barium	**37.4**		mg/kg dry	1.03	0.331	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.151	U	mg/kg dry	0.514	0.151	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**15.1**		mg/kg dry	1.03	0.222	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0250**	J	mg/kg dry	0.0338	0.0017	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**10.7**		mg/kg dry	1.54	0.569	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.442	U	mg/kg dry	1.54	0.442	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**81.2**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-21 (9-10)	New 7426.P2	Soil/Sediment	14-Nov-13 14:15	16-Nov-13
SB80494-12				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.24 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.3	UJL	µg/kg dry	5.6	3.3	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328194	X
67-64-1	Acetone	< 53.2	UJL	µg/kg dry	55.9	53.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.5	UJL	µg/kg dry	5.6	5.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.9	UJL	µg/kg dry	5.6	1.9	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.6	UJL	µg/kg dry	5.6	1.6	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.9	UJL	µg/kg dry	5.6	4.9	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.1	UJL	µg/kg dry	5.6	4.1	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.0	UJL	µg/kg dry	5.6	3.0	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 9.9	UJL	µg/kg dry	11.2	9.9	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.1	UJL	µg/kg dry	55.9	17.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.9	UJL	µg/kg dry	5.6	3.9	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.5	UJL	µg/kg dry	5.6	2.5	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.4	UJL	µg/kg dry	5.6	1.4	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.0	UJL	µg/kg dry	11.2	8.0	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.1	UJL	µg/kg dry	5.6	4.1	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.0	UJL	µg/kg dry	5.6	3.0	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.7	UJL	µg/kg dry	11.2	3.7	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.1	UJL	µg/kg dry	5.6	4.1	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.7	UJL	µg/kg dry	11.2	5.7	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.7	UJL	µg/kg dry	5.6	1.7	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.6	UJL	µg/kg dry	5.6	2.6	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.8	UJL	µg/kg dry	11.2	10.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.1	UJL	µg/kg dry	5.6	4.1	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.2	UJL	µg/kg dry	5.6	4.2	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.9	UJL	µg/kg dry	5.6	1.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.5	UJL	µg/kg dry	5.6	2.5	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.1	UJL	µg/kg dry	5.6	2.1	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.8	UJL	µg/kg dry	11.2	2.8	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.5	UJL	µg/kg dry	5.6	5.5	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.7	UJL	µg/kg dry	5.6	3.7	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.0	UJL	µg/kg dry	5.6	3.0	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.4	UJL	µg/kg dry	5.6	2.4	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.7	UJL	µg/kg dry	5.6	4.7	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.0	UJL	µg/kg dry	5.6	3.0	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.1	UJL	µg/kg dry	5.6	4.1	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.3	UJL	µg/kg dry	5.6	2.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.1	UJL	µg/kg dry	5.6	2.1	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.0	UJL	µg/kg dry	5.6	2.0	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-21 (9-10)	New 7426.P2	Soil/Sediment	14-Nov-13 14:15	16-Nov-13
SB80494-12				

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 5035A Soil (low level)						Initial weight: 5.24 g							
87-68-3	Hexachlorobutadiene	< 5.6	UJL	µg/kg dry	5.6	5.6	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328194	X
591-78-6	2-Hexanone (MBK)	< 13.0	UJL	µg/kg dry	55.9	13.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.2	UJL	µg/kg dry	5.6	1.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.6	UJL	µg/kg dry	5.6	2.6	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.5	UJL	µg/kg dry	5.6	3.5	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 23.0	UJL	µg/kg dry	55.9	23.0	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**7.4**	JL, O01	µg/kg dry	11.2	4.6	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.7	UJL	µg/kg dry	5.6	1.7	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.8	UJL	µg/kg dry	5.6	2.8	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.2	UJL	µg/kg dry	5.6	5.2	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.5	UJL	µg/kg dry	5.6	3.5	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.8	UJL	µg/kg dry	5.6	3.8	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.3	UJL	µg/kg dry	5.6	4.3	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.3	UJL	µg/kg dry	5.6	4.3	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.5	UJL	µg/kg dry	5.6	3.5	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.4	UJL	µg/kg dry	5.6	2.4	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.7	UJL	µg/kg dry	5.6	4.7	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.9	UJL	µg/kg dry	5.6	1.9	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.4	UJL	µg/kg dry	5.6	3.4	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.5	UJL	µg/kg dry	11.2	7.5	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.4	UJL	µg/kg dry	5.6	1.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.5	UJL	µg/kg dry	11.2	5.5	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.0	UJL	µg/kg dry	5.6	4.0	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.4	UJL	µg/kg dry	5.6	1.4	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.2	UJL	µg/kg dry	5.6	2.2	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.9	UJL	µg/kg dry	5.6	2.9	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 55.0	UJL	µg/kg dry	55.9	55.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 99.3	UJL	µg/kg dry	112	99.3	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 9.6	UJL	µg/kg dry	28.0	9.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 366	UJL	µg/kg dry	2240	366	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*105*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*113*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-21 (9-10)	New 7426.P2	Soil/Sediment	14-Nov-13 14:15	16-Nov-13
SB80494-12				

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	< 45.8	U	µg/kg dry	180	45.8	1	SW846 8270D	20-Nov-13	21-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 49.9	U	µg/kg dry	180	49.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 45.9	U	µg/kg dry	180	45.9	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 48.2	U	µg/kg dry	180	48.2	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 49.0	U	µg/kg dry	180	49.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 39.1	U	µg/kg dry	180	39.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 50.1	U	µg/kg dry	180	50.1	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 63.8	U	µg/kg dry	180	63.8	1	"	"	"	"	"	X
218-01-9	Chrysene	< 50.8	U	µg/kg dry	180	50.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 46.5	U	µg/kg dry	180	46.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 50.3	U	µg/kg dry	180	50.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 50.1	U	µg/kg dry	180	50.1	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 49.9	U	µg/kg dry	180	49.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 53.1	U	µg/kg dry	180	53.1	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 51.4	U	µg/kg dry	180	51.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.3	U	µg/kg dry	180	50.3	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 48.0	U	µg/kg dry	180	48.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 43.5	U	µg/kg dry	180	43.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*52*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*62*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.450	U	mg/kg dry	1.56	0.450	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**3.15**		mg/kg dry	1.56	0.681	1	"	"	"	"	"	X
7440-39-3	Barium	**29.6**		mg/kg dry	1.04	0.335	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.153	U	mg/kg dry	0.520	0.153	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**11.6**		mg/kg dry	1.04	0.225	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0148**	J	mg/kg dry	0.0298	0.0015	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**9.50**		mg/kg dry	1.56	0.576	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.448	U	mg/kg dry	1.56	0.448	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.2**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-22 (0-3)	New 7426.P2	Soil/Sediment	14-Nov-13 14:20	16-Nov-13
SB80494-13				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.65 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.5	UJL	µg/kg dry	5.8	3.5	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328194	X
67-64-1	Acetone	< 54.9	UJL	µg/kg dry	57.7	54.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.7	UJL	µg/kg dry	5.8	5.7	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.0	UJL	µg/kg dry	5.8	2.0	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.6	UJL	µg/kg dry	5.8	1.6	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.0	UJL	µg/kg dry	5.8	5.0	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 4.3	UJL	µg/kg dry	5.8	4.3	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.2	UJL	µg/kg dry	11.5	10.2	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.7	UJL	µg/kg dry	57.7	17.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 4.0	UJL	µg/kg dry	5.8	4.0	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.5	UJL	µg/kg dry	5.8	1.5	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 8.3	UJL	µg/kg dry	11.5	8.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.8	UJL	µg/kg dry	11.5	3.8	1	"	"	"	"	"	X
67-66-3	Chloroform	< 4.3	UJL	µg/kg dry	5.8	4.3	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.9	UJL	µg/kg dry	11.5	5.9	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.8	UJL	µg/kg dry	5.8	1.8	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.1	UJL	µg/kg dry	11.5	11.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 4.4	UJL	µg/kg dry	5.8	4.4	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.9	UJL	µg/kg dry	5.8	3.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.9	UJL	µg/kg dry	5.8	1.9	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.6	UJL	µg/kg dry	5.8	2.6	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.2	UJL	µg/kg dry	5.8	2.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.9	UJL	µg/kg dry	11.5	2.9	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.6	UJL	µg/kg dry	5.8	5.6	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.8	UJL	µg/kg dry	5.8	3.8	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.5	UJL	µg/kg dry	5.8	2.5	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.9	UJL	µg/kg dry	5.8	4.9	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.1	UJL	µg/kg dry	5.8	3.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.2	UJL	µg/kg dry	5.8	2.2	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.1	UJL	µg/kg dry	5.8	2.1	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-22 (0-3)	New 7426.P2	Soil/Sediment	14-Nov-13 14:20	16-Nov-13
SB80494-13				

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: 5.65 g							
87-68-3	Hexachlorobutadiene	< 5.7	UJL	µg/kg dry	5.8	5.7	1	SW846 8260C	20-Nov-13	20-Nov-13	JEG	1328194	X
591-78-6	2-Hexanone (MBK)	< 13.4	UJL	µg/kg dry	57.7	13.4	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.3	UJL	µg/kg dry	5.8	1.3	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	**3.0**	JL	µg/kg dry	5.8	2.7	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.6	UJL	µg/kg dry	5.8	3.6	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 23.7	UJL	µg/kg dry	57.7	23.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**9.8**	JL, O01	µg/kg dry	11.5	4.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.7	UJL	µg/kg dry	5.8	1.7	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.9	UJL	µg/kg dry	5.8	2.9	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.3	UJL	µg/kg dry	5.8	5.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.6	UJL	µg/kg dry	5.8	3.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.9	UJL	µg/kg dry	5.8	3.9	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 4.1	UJL	µg/kg dry	5.8	4.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4.5	UJL	µg/kg dry	5.8	4.5	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 4.1	UJL	µg/kg dry	5.8	4.1	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 4.4	UJL	µg/kg dry	5.8	4.4	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 4.1	UJL	µg/kg dry	5.8	4.1	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.6	UJL	µg/kg dry	5.8	3.6	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.4	UJL	µg/kg dry	5.8	2.4	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 4.8	UJL	µg/kg dry	5.8	4.8	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.0	UJL	µg/kg dry	5.8	2.0	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.5	UJL	µg/kg dry	5.8	3.5	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.8	UJL	µg/kg dry	11.5	7.8	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.4	UJL	µg/kg dry	5.8	1.4	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.7	UJL	µg/kg dry	11.5	5.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 4.2	UJL	µg/kg dry	5.8	4.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.4	UJL	µg/kg dry	5.8	1.4	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.3	UJL	µg/kg dry	5.8	2.3	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.0	UJL	µg/kg dry	5.8	3.0	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 56.8	UJL	µg/kg dry	57.7	56.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 103	UJL	µg/kg dry	115	103	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 9.9	UJL	µg/kg dry	28.9	9.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 378	UJL	µg/kg dry	2310	378	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*109*			*70-130 %*			"	"	"	"	"	

Semivolatile Organic Compounds by GCMS

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-22 (0-3)	New 7426.P2	Soil/Sediment	14-Nov-13 14:20	16-Nov-13
SB80494-13				

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	< 477	U, D	µg/kg dry	1880	477	10	SW846 8270D	20-Nov-13	22-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 520	U, D	µg/kg dry	1880	520	10	"	"	"	"	"	X
120-12-7	Anthracene	**487**	J, D	µg/kg dry	1880	478	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**2,360**	D	µg/kg dry	1880	502	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**2,490**	D	µg/kg dry	1880	511	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**2,620**	D	µg/kg dry	1880	408	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**1,330**	J, D	µg/kg dry	1880	522	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**2,090**	D	µg/kg dry	1880	664	10	"	"	"	"	"	X
218-01-9	Chrysene	**2,490**	D	µg/kg dry	1880	529	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 484	U, D	µg/kg dry	1880	484	10	"	"	"	"	"	X
206-44-0	Fluoranthene	**4,010**	D	µg/kg dry	1880	524	10	"	"	"	"	"	X
86-73-7	Fluorene	< 522	U, D	µg/kg dry	1880	522	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**1,490**	J, D	µg/kg dry	1880	520	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 553	U, D	µg/kg dry	1880	553	10	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 536	U, D	µg/kg dry	1880	536	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 524	U, D	µg/kg dry	1880	524	10	"	"	"	"	"	X
85-01-8	Phenanthrene	**2,380**	D	µg/kg dry	1880	501	10	"	"	"	"	"	X
129-00-0	Pyrene	**3,580**	D	µg/kg dry	1880	453	10	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*64*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*56*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.430	U	mg/kg dry	1.49	0.430	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**5.92**		mg/kg dry	1.49	0.650	1	"	"	"	"	"	X
7440-39-3	Barium	**64.7**		mg/kg dry	0.994	0.320	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.437**	J	mg/kg dry	0.497	0.146	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**14.1**		mg/kg dry	0.994	0.215	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.121**		mg/kg dry	0.0310	0.0016	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**287**		mg/kg dry	1.49	0.550	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.428	U	mg/kg dry	1.49	0.428	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**87.5**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-23 (10-10.5)	New 7426.P2	Soil/Sediment	14-Nov-13 14:30	16-Nov-13
SB80494-14				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
	VOC Extraction	**Lab extracted**		N/A			1	VOC Soil Extraction	19-Nov-13	19-Nov-13	DJB	1328149	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.49 g							
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.8	UJL	µg/kg dry	4.7	2.8	1	SW846 8260C	20-Nov-13	21-Nov-13	JEG	1328194	X
67-64-1	Acetone	< 44.9	UJL	µg/kg dry	47.2	44.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 4.6	UJL	µg/kg dry	4.7	4.6	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.6	UJL	µg/kg dry	4.7	1.6	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.3	UJL	µg/kg dry	4.7	1.3	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 4.1	UJL	µg/kg dry	4.7	4.1	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.5	UJL	µg/kg dry	4.7	3.5	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.6	UJL	µg/kg dry	4.7	2.6	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 8.4	UJL	µg/kg dry	9.4	8.4	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 14.5	UJL	µg/kg dry	47.2	14.5	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.3	UJL	µg/kg dry	4.7	3.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.1	UJL	µg/kg dry	4.7	2.1	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.2	UJL	µg/kg dry	4.7	1.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 6.8	UJL	µg/kg dry	9.4	6.8	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.5	UJL	µg/kg dry	4.7	3.5	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.6	UJL	µg/kg dry	4.7	2.6	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.1	UJL	µg/kg dry	9.4	3.1	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.5	UJL	µg/kg dry	4.7	3.5	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 4.8	UJL	µg/kg dry	9.4	4.8	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.5	UJL	µg/kg dry	4.7	1.5	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.2	UJL	µg/kg dry	4.7	2.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 9.1	UJL	µg/kg dry	9.4	9.1	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.4	UJL	µg/kg dry	4.7	3.4	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.6	UJL	µg/kg dry	4.7	3.6	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.2	UJL	µg/kg dry	4.7	3.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.6	UJL	µg/kg dry	4.7	1.6	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.1	UJL	µg/kg dry	4.7	2.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.8	UJL	µg/kg dry	4.7	1.8	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.3	UJL	µg/kg dry	9.4	2.3	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 4.6	UJL	µg/kg dry	4.7	4.6	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.1	UJL	µg/kg dry	4.7	3.1	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.5	UJL	µg/kg dry	4.7	2.5	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.1	UJL	µg/kg dry	4.7	2.1	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 4.0	UJL	µg/kg dry	4.7	4.0	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.5	UJL	µg/kg dry	4.7	2.5	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.5	UJL	µg/kg dry	4.7	3.5	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.9	UJL	µg/kg dry	4.7	1.9	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.8	UJL	µg/kg dry	4.7	1.8	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.7	UJL	µg/kg dry	4.7	1.7	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.8	UJL	µg/kg dry	4.7	2.8	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 2.9	UJL	µg/kg dry	4.7	2.9	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-23 (10-10.5)	New 7426.P2	Soil/Sediment	14-Nov-13 14:30	16-Nov-13
SB80494-14				

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													
Prepared by method SW846 5035A Soil (low level)						Initial weight: 6.49 g							
87-68-3	Hexachlorobutadiene	< 4.7	UJL	µg/kg dry	4.7	4.7	1	SW846 8260C	20-Nov-13	21-Nov-13	JEG	1328194	X
591-78-6	2-Hexanone (MBK)	< 11.0	UJL	µg/kg dry	47.2	11.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.0	UJL	µg/kg dry	4.7	1.0	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.2	UJL	µg/kg dry	4.7	2.2	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.0	UJL	µg/kg dry	4.7	3.0	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 19.4	UJL	µg/kg dry	47.2	19.4	1	"	"	"	"	"	X
75-09-2	Methylene chloride	**5.9**	JL, O01	µg/kg dry	9.4	3.9	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.1	UJL	µg/kg dry	4.7	2.1	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.8	UJL	µg/kg dry	4.7	1.8	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.4	UJL	µg/kg dry	4.7	1.4	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.3	UJL	µg/kg dry	4.7	2.3	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 4.4	UJL	µg/kg dry	4.7	4.4	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.0	UJL	µg/kg dry	4.7	3.0	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.2	UJL	µg/kg dry	4.7	3.2	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.3	UJL	µg/kg dry	4.7	3.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.6	UJL	µg/kg dry	4.7	3.6	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.3	UJL	µg/kg dry	4.7	3.3	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.6	UJL	µg/kg dry	4.7	3.6	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.4	UJL	µg/kg dry	4.7	3.4	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.9	UJL	µg/kg dry	4.7	2.9	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.0	UJL	µg/kg dry	4.7	2.0	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.9	UJL	µg/kg dry	4.7	3.9	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.6	UJL	µg/kg dry	4.7	1.6	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.8	UJL	µg/kg dry	4.7	1.8	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2.8	UJL	µg/kg dry	4.7	2.8	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 6.3	UJL	µg/kg dry	9.4	6.3	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.2	UJL	µg/kg dry	4.7	1.2	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 4.7	UJL	µg/kg dry	9.4	4.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.4	UJL	µg/kg dry	4.7	3.4	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.2	UJL	µg/kg dry	4.7	1.2	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.9	UJL	µg/kg dry	4.7	1.9	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.5	UJL	µg/kg dry	4.7	2.5	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 46.4	UJL	µg/kg dry	47.2	46.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 83.9	UJL	µg/kg dry	94.4	83.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 8.1	UJL	µg/kg dry	23.6	8.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 309	UJL	µg/kg dry	1890	309	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*105*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*112*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SB-23 (10-10.5)	New 7426.P2	Soil/Sediment	14-Nov-13 14:30	16-Nov-13
SB80494-14				

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													
Prepared by method SW846 3545A													
83-32-9	Acenaphthene	< 45.7	U	µg/kg dry	180	45.7	1	SW846 8270D	20-Nov-13	22-Nov-13	MSL	1328259	X
208-96-8	Acenaphthylene	< 49.9	U	µg/kg dry	180	49.9	1	"	"	"	"	"	X
120-12-7	Anthracene	< 45.8	U	µg/kg dry	180	45.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 48.1	U	µg/kg dry	180	48.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 49.0	U	µg/kg dry	180	49.0	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 39.1	U	µg/kg dry	180	39.1	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 50.0	U	µg/kg dry	180	50.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 63.7	U	µg/kg dry	180	63.7	1	"	"	"	"	"	X
218-01-9	Chrysene	< 50.8	U	µg/kg dry	180	50.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 46.5	U	µg/kg dry	180	46.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 50.3	U	µg/kg dry	180	50.3	1	"	"	"	"	"	X
86-73-7	Fluorene	< 50.0	U	µg/kg dry	180	50.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 49.9	U	µg/kg dry	180	49.9	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 53.1	U	µg/kg dry	180	53.1	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 51.4	U	µg/kg dry	180	51.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.2	U	µg/kg dry	180	50.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 48.0	U	µg/kg dry	180	48.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 43.5	U	µg/kg dry	180	43.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*49*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*59*			*30-130 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.467	U	mg/kg dry	1.62	0.467	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7440-38-2	Arsenic	**3.83**		mg/kg dry	1.62	0.707	1	"	"	"	"	"	X
7440-39-3	Barium	**27.6**		mg/kg dry	1.08	0.348	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.159	U	mg/kg dry	0.541	0.159	1	"	"	25-Nov-13	"	"	X
7440-47-3	Chromium	**10.7**		mg/kg dry	1.08	0.234	1	"	"	22-Nov-13	"	"	X
7439-97-6	Mercury	**0.0190**	J	mg/kg dry	0.0326	0.0017	1	SW846 7471B	22-Nov-13	25-Nov-13	LR	1328337	X
7439-92-1	Lead	**10.5**		mg/kg dry	1.62	0.598	1	SW846 6010C	21-Nov-13	22-Nov-13	JLM	1328335	X
7782-49-2	Selenium	< 0.465	U	mg/kg dry	1.62	0.465	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**91.1**		%			1	SM2540 G Mod.	19-Nov-13	19-Nov-13	DT	1328135	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328192 - SW846 5035A Soil (low level)										
Blank (1328192-BLK1)					Prepared & Analyzed: 20-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.0		µg/kg wet	3.0						
Acetone	< 47.5		µg/kg wet	47.5						
Acrylonitrile	< 4.9		µg/kg wet	4.9						
Benzene	< 1.7		µg/kg wet	1.7						
Bromobenzene	< 1.4		µg/kg wet	1.4						
Bromochloromethane	< 4.4		µg/kg wet	4.4						
Bromodichloromethane	< 3.7		µg/kg wet	3.7						
Bromoform	< 2.7		µg/kg wet	2.7						
Bromomethane	< 8.9		µg/kg wet	8.9						
2-Butanone (MEK)	< 15.3		µg/kg wet	15.3						
n-Butylbenzene	< 3.5		µg/kg wet	3.5						
sec-Butylbenzene	< 2.2		µg/kg wet	2.2						
tert-Butylbenzene	< 1.3		µg/kg wet	1.3						
Carbon disulfide	< 7.2		µg/kg wet	7.2						
Carbon tetrachloride	< 3.7		µg/kg wet	3.7						
Chlorobenzene	< 2.7		µg/kg wet	2.7						
Chloroethane	< 3.3		µg/kg wet	3.3						
Chloroform	< 3.7		µg/kg wet	3.7						
Chloromethane	< 5.1		µg/kg wet	5.1						
2-Chlorotoluene	< 1.5		µg/kg wet	1.5						
4-Chlorotoluene	< 2.3		µg/kg wet	2.3						
1,2-Dibromo-3-chloropropane	< 9.6		µg/kg wet	9.6						
Dibromochloromethane	< 3.6		µg/kg wet	3.6						
1,2-Dibromoethane (EDB)	< 3.8		µg/kg wet	3.8						
Dibromomethane	< 3.4		µg/kg wet	3.4						
1,2-Dichlorobenzene	< 1.7		µg/kg wet	1.7						
1,3-Dichlorobenzene	< 2.2		µg/kg wet	2.2						
1,4-Dichlorobenzene	< 1.9		µg/kg wet	1.9						
Dichlorodifluoromethane (Freon12)	< 2.5		µg/kg wet	2.5						
1,1-Dichloroethane	< 4.9		µg/kg wet	4.9						
1,2-Dichloroethane	< 3.3		µg/kg wet	3.3						
1,1-Dichloroethene	< 2.7		µg/kg wet	2.7						
cis-1,2-Dichloroethene	< 2.2		µg/kg wet	2.2						
trans-1,2-Dichloroethene	< 4.2		µg/kg wet	4.2						
1,2-Dichloropropane	< 2.6		µg/kg wet	2.6						
1,3-Dichloropropane	< 3.7		µg/kg wet	3.7						
2,2-Dichloropropane	< 2.0		µg/kg wet	2.0						
1,1-Dichloropropene	< 1.9		µg/kg wet	1.9						
cis-1,3-Dichloropropene	< 1.8		µg/kg wet	1.8						
trans-1,3-Dichloropropene	< 3.0		µg/kg wet	3.0						
Ethylbenzene	< 3.0		µg/kg wet	3.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 11.6		µg/kg wet	11.6						
Isopropylbenzene	< 1.1		µg/kg wet	1.1						
4-Isopropyltoluene	< 2.4		µg/kg wet	2.4						
Methyl tert-butyl ether	< 3.1		µg/kg wet	3.1						
4-Methyl-2-pentanone (MIBK)	< 20.6		µg/kg wet	20.6						
Methylene chloride	< 4.1		µg/kg wet	4.1						
Naphthalene	**2.6**		µg/kg wet	2.2						
n-Propylbenzene	< 2.0		µg/kg wet	2.0						
Styrene	< 1.5		µg/kg wet	1.5						
1,1,1,2-Tetrachloroethane	< 2.5		µg/kg wet	2.5						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328192 - SW846 5035A Soil (low level)										
Blank (1328192-BLK1)					Prepared & Analyzed: 20-Nov-13					
1,1,2,2-Tetrachloroethane	< 4.6		µg/kg wet	4.6						
Tetrachloroethene	< 3.1		µg/kg wet	3.1						
Toluene	< 3.4		µg/kg wet	3.4						
1,2,3-Trichlorobenzene	< 3.5		µg/kg wet	3.5						
1,2,4-Trichlorobenzene	< 3.9		µg/kg wet	3.9						
1,3,5-Trichlorobenzene	< 3.5		µg/kg wet	3.5						
1,1,1-Trichloroethane	< 3.8		µg/kg wet	3.8						
1,1,2-Trichloroethane	< 3.6		µg/kg wet	3.6						
Trichloroethene	< 3.1		µg/kg wet	3.1						
Trichlorofluoromethane (Freon 11)	< 2.1		µg/kg wet	2.1						
1,2,3-Trichloropropane	< 4.2		µg/kg wet	4.2						
1,2,4-Trimethylbenzene	< 1.7		µg/kg wet	1.7						
1,3,5-Trimethylbenzene	< 2.0		µg/kg wet	2.0						
Vinyl chloride	< 3.0		µg/kg wet	3.0						
m,p-Xylene	< 6.7		µg/kg wet	6.7						
o-Xylene	< 1.3		µg/kg wet	1.3						
Tetrahydrofuran	< 4.9		µg/kg wet	4.9						
Ethyl ether	< 3.6		µg/kg wet	3.6						
Tert-amyl methyl ether	< 1.2		µg/kg wet	1.2						
Ethyl tert-butyl ether	< 2.0		µg/kg wet	2.0						
Di-isopropyl ether	< 2.6		µg/kg wet	2.6						
Tert-Butanol / butyl alcohol	< 49.2		µg/kg wet	49.2						
1,4-Dioxane	< 88.8		µg/kg wet	88.8						
trans-1,4-Dichloro-2-butene	< 8.5		µg/kg wet	8.5						
Ethanol	< 327		µg/kg wet	327						
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*52.4*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.9*		µg/kg wet		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*51.2*		µg/kg wet		*50.0*		*102*	*70-130*		
LCS (1328192-BS1)					Prepared & Analyzed: 20-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.2**		µg/kg wet		20.0		96	70-130		
Acetone	**18.6**		µg/kg wet		20.0		93	70-130		
Acrylonitrile	**21.0**		µg/kg wet		20.0		105	70-130		
Benzene	**20.1**		µg/kg wet		20.0		100	70-130		
Bromobenzene	**20.7**		µg/kg wet		20.0		103	70-130		
Bromochloromethane	**21.2**		µg/kg wet		20.0		106	70-130		
Bromodichloromethane	**20.2**		µg/kg wet		20.0		101	70-130		
Bromoform	**17.9**		µg/kg wet		20.0		89	70-130		
Bromomethane	**18.4**		µg/kg wet		20.0		92	70-130		
2-Butanone (MEK)	**21.0**		µg/kg wet		20.0		105	70-130		
n-Butylbenzene	**17.0**		µg/kg wet		20.0		85	70-130		
sec-Butylbenzene	**19.8**		µg/kg wet		20.0		99	70-130		
tert-Butylbenzene	**20.1**		µg/kg wet		20.0		101	70-130		
Carbon disulfide	**17.8**		µg/kg wet		20.0		89	70-130		
Carbon tetrachloride	**20.0**		µg/kg wet		20.0		100	70-130		
Chlorobenzene	**19.4**		µg/kg wet		20.0		97	70-130		
Chloroethane	**18.5**		µg/kg wet		20.0		92	70-130		
Chloroform	**18.3**		µg/kg wet		20.0		92	70-130		
Chloromethane	**16.5**		µg/kg wet		20.0		83	70-130		
2-Chlorotoluene	**18.9**		µg/kg wet		20.0		95	70-130		
4-Chlorotoluene	**19.5**		µg/kg wet		20.0		98	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328192 - SW846 5035A Soil (low level)										
LCS (1328192-BS1)					Prepared & Analyzed: 20-Nov-13					
1,2-Dibromo-3-chloropropane	**16.8**		µg/kg wet		20.0		84	70-130		
Dibromochloromethane	**18.6**		µg/kg wet		20.0		93	70-130		
1,2-Dibromoethane (EDB)	**22.9**		µg/kg wet		20.0		115	70-130		
Dibromomethane	**21.3**		µg/kg wet		20.0		106	70-130		
1,2-Dichlorobenzene	**18.8**		µg/kg wet		20.0		94	70-130		
1,3-Dichlorobenzene	**20.4**		µg/kg wet		20.0		102	70-130		
1,4-Dichlorobenzene	**18.3**		µg/kg wet		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	**16.9**		µg/kg wet		20.0		85	70-130		
1,1-Dichloroethane	**19.7**		µg/kg wet		20.0		99	70-130		
1,2-Dichloroethane	**19.6**		µg/kg wet		20.0		98	70-130		
1,1-Dichloroethene	**19.6**		µg/kg wet		20.0		98	70-130		
cis-1,2-Dichloroethene	**20.2**		µg/kg wet		20.0		101	70-130		
trans-1,2-Dichloroethene	**19.6**		µg/kg wet		20.0		98	70-130		
1,2-Dichloropropane	**20.7**		µg/kg wet		20.0		104	70-130		
1,3-Dichloropropane	**21.2**		µg/kg wet		20.0		106	70-130		
2,2-Dichloropropane	**22.0**		µg/kg wet		20.0		110	70-130		
1,1-Dichloropropene	**19.8**		µg/kg wet		20.0		99	70-130		
cis-1,3-Dichloropropene	**19.3**		µg/kg wet		20.0		96	70-130		
trans-1,3-Dichloropropene	**20.7**		µg/kg wet		20.0		104	70-130		
Ethylbenzene	**19.8**		µg/kg wet		20.0		99	70-130		
Hexachlorobutadiene	**18.7**		µg/kg wet		20.0		93	70-130		
2-Hexanone (MBK)	**19.2**		µg/kg wet		20.0		96	70-130		
Isopropylbenzene	**20.0**		µg/kg wet		20.0		100	70-130		
4-Isopropyltoluene	**18.5**		µg/kg wet		20.0		92	70-130		
Methyl tert-butyl ether	**23.3**		µg/kg wet		20.0		116	70-130		
4-Methyl-2-pentanone (MIBK)	**22.9**		µg/kg wet		20.0		114	70-130		
Methylene chloride	**18.6**		µg/kg wet		20.0		93	70-130		
Naphthalene	**21.6**		µg/kg wet		20.0		108	70-130		
n-Propylbenzene	**20.5**		µg/kg wet		20.0		102	70-130		
Styrene	**20.7**		µg/kg wet		20.0		103	70-130		
1,1,1,2-Tetrachloroethane	**20.4**		µg/kg wet		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	**21.1**		µg/kg wet		20.0		105	70-130		
Tetrachloroethene	**21.2**		µg/kg wet		20.0		106	70-130		
Toluene	**19.8**		µg/kg wet		20.0		99	70-130		
1,2,3-Trichlorobenzene	**19.5**		µg/kg wet		20.0		97	70-130		
1,2,4-Trichlorobenzene	**18.7**		µg/kg wet		20.0		93	70-130		
1,3,5-Trichlorobenzene	**20.4**		µg/kg wet		20.0		102	70-130		
1,1,1-Trichloroethane	**20.2**		µg/kg wet		20.0		101	70-130		
1,1,2-Trichloroethane	**21.9**		µg/kg wet		20.0		109	70-130		
Trichloroethene	**19.9**		µg/kg wet		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	**19.1**		µg/kg wet		20.0		96	70-130		
1,2,3-Trichloropropane	**20.4**		µg/kg wet		20.0		102	70-130		
1,2,4-Trimethylbenzene	**20.6**		µg/kg wet		20.0		103	70-130		
1,3,5-Trimethylbenzene	**20.0**		µg/kg wet		20.0		100	70-130		
Vinyl chloride	**19.0**		µg/kg wet		20.0		95	70-130		
m,p-Xylene	**40.2**		µg/kg wet		40.0		100	70-130		
o-Xylene	**20.0**		µg/kg wet		20.0		100	70-130		
Tetrahydrofuran	**20.8**		µg/kg wet		20.0		104	70-130		
Ethyl ether	**21.3**		µg/kg wet		20.0		106	70-130		
Tert-amyl methyl ether	**18.5**		µg/kg wet		20.0		92	70-130		
Ethyl tert-butyl ether	**22.4**		µg/kg wet		20.0		112	70-130		
Di-isopropyl ether	**19.8**		µg/kg wet		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328192 - SW846 5035A Soil (low level)										
LCS (1328192-BS1)						Prepared & Analyzed: 20-Nov-13				
Tert-Butanol / butyl alcohol	**269**	QM9	µg/kg wet		200		134	70-130		
1,4-Dioxane	**216**		µg/kg wet		200		108	70-130		
trans-1,4-Dichloro-2-butene	**20.3**		µg/kg wet		20.0		101	70-130		
Ethanol	**397**		µg/kg wet		400		99	70-130		
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*52.5*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.9*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*51.0*		µg/kg wet		*50.0*		*102*	*70-130*		
LCS Dup (1328192-BSD1)						Prepared & Analyzed: 20-Nov-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.7**		µg/kg wet		20.0		94	70-130	2	30
Acetone	**19.3**		µg/kg wet		20.0		96	70-130	4	30
Acrylonitrile	**20.5**		µg/kg wet		20.0		102	70-130	3	30
Benzene	**19.3**		µg/kg wet		20.0		97	70-130	4	30
Bromobenzene	**19.9**		µg/kg wet		20.0		100	70-130	4	30
Bromochloromethane	**20.6**		µg/kg wet		20.0		103	70-130	3	30
Bromodichloromethane	**19.3**		µg/kg wet		20.0		96	70-130	5	30
Bromoform	**17.0**		µg/kg wet		20.0		85	70-130	5	30
Bromomethane	**18.2**		µg/kg wet		20.0		91	70-130	1	30
2-Butanone (MEK)	**18.9**		µg/kg wet		20.0		94	70-130	11	30
n-Butylbenzene	**16.0**		µg/kg wet		20.0		80	70-130	7	30
sec-Butylbenzene	**19.3**		µg/kg wet		20.0		97	70-130	3	30
tert-Butylbenzene	**19.6**		µg/kg wet		20.0		98	70-130	3	30
Carbon disulfide	**16.8**		µg/kg wet		20.0		84	70-130	5	30
Carbon tetrachloride	**18.6**		µg/kg wet		20.0		93	70-130	7	30
Chlorobenzene	**18.9**		µg/kg wet		20.0		94	70-130	3	30
Chloroethane	**18.4**		µg/kg wet		20.0		92	70-130	0.4	30
Chloroform	**17.9**		µg/kg wet		20.0		89	70-130	2	30
Chloromethane	**16.1**		µg/kg wet		20.0		80	70-130	3	30
2-Chlorotoluene	**18.2**		µg/kg wet		20.0		91	70-130	4	30
4-Chlorotoluene	**18.9**		µg/kg wet		20.0		95	70-130	3	30
1,2-Dibromo-3-chloropropane	**15.0**		µg/kg wet		20.0		75	70-130	11	30
Dibromochloromethane	**17.6**		µg/kg wet		20.0		88	70-130	5	30
1,2-Dibromoethane (EDB)	**22.0**		µg/kg wet		20.0		110	70-130	4	30
Dibromomethane	**20.4**		µg/kg wet		20.0		102	70-130	4	30
1,2-Dichlorobenzene	**18.0**		µg/kg wet		20.0		90	70-130	4	30
1,3-Dichlorobenzene	**19.6**		µg/kg wet		20.0		98	70-130	4	30
1,4-Dichlorobenzene	**17.7**		µg/kg wet		20.0		88	70-130	3	30
Dichlorodifluoromethane (Freon12)	**16.3**		µg/kg wet		20.0		82	70-130	4	30
1,1-Dichloroethane	**19.0**		µg/kg wet		20.0		95	70-130	4	30
1,2-Dichloroethane	**18.9**		µg/kg wet		20.0		95	70-130	4	30
1,1-Dichloroethene	**18.8**		µg/kg wet		20.0		94	70-130	4	30
cis-1,2-Dichloroethene	**19.7**		µg/kg wet		20.0		98	70-130	3	30
trans-1,2-Dichloroethene	**19.3**		µg/kg wet		20.0		96	70-130	2	30
1,2-Dichloropropane	**20.2**		µg/kg wet		20.0		101	70-130	3	30
1,3-Dichloropropane	**20.4**		µg/kg wet		20.0		102	70-130	4	30
2,2-Dichloropropane	**20.3**		µg/kg wet		20.0		102	70-130	8	30
1,1-Dichloropropene	**18.8**		µg/kg wet		20.0		94	70-130	5	30
cis-1,3-Dichloropropene	**18.4**		µg/kg wet		20.0		92	70-130	5	30
trans-1,3-Dichloropropene	**19.4**		µg/kg wet		20.0		97	70-130	7	30
Ethylbenzene	**19.2**		µg/kg wet		20.0		96	70-130	3	30
Hexachlorobutadiene	**17.9**		µg/kg wet		20.0		90	70-130	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328192 - SW846 5035A Soil (low level)										
LCS Dup (1328192-BSD1)					Prepared & Analyzed: 20-Nov-13					
2-Hexanone (MBK)	**17.7**		µg/kg wet		20.0		88	70-130	8	30
Isopropylbenzene	**19.2**		µg/kg wet		20.0		96	70-130	4	30
4-Isopropyltoluene	**17.7**		µg/kg wet		20.0		88	70-130	4	30
Methyl tert-butyl ether	**22.2**		µg/kg wet		20.0		111	70-130	5	30
4-Methyl-2-pentanone (MIBK)	**21.3**		µg/kg wet		20.0		106	70-130	7	30
Methylene chloride	**18.0**		µg/kg wet		20.0		90	70-130	3	30
Naphthalene	**19.8**		µg/kg wet		20.0		99	70-130	9	30
n-Propylbenzene	**19.7**		µg/kg wet		20.0		99	70-130	4	30
Styrene	**20.1**		µg/kg wet		20.0		100	70-130	3	30
1,1,1,2-Tetrachloroethane	**19.4**		µg/kg wet		20.0		97	70-130	5	30
1,1,2,2-Tetrachloroethane	**20.3**		µg/kg wet		20.0		102	70-130	4	30
Tetrachloroethene	**20.3**		µg/kg wet		20.0		102	70-130	4	30
Toluene	**19.1**		µg/kg wet		20.0		95	70-130	4	30
1,2,3-Trichlorobenzene	**18.3**		µg/kg wet		20.0		91	70-130	6	30
1,2,4-Trichlorobenzene	**17.5**		µg/kg wet		20.0		87	70-130	6	30
1,3,5-Trichlorobenzene	**19.5**		µg/kg wet		20.0		97	70-130	4	30
1,1,1-Trichloroethane	**19.1**		µg/kg wet		20.0		95	70-130	6	30
1,1,2-Trichloroethane	**21.1**		µg/kg wet		20.0		105	70-130	4	30
Trichloroethene	**18.9**		µg/kg wet		20.0		94	70-130	5	30
Trichlorofluoromethane (Freon 11)	**18.0**		µg/kg wet		20.0		90	70-130	6	30
1,2,3-Trichloropropane	**19.9**		µg/kg wet		20.0		100	70-130	2	30
1,2,4-Trimethylbenzene	**19.7**		µg/kg wet		20.0		98	70-130	4	30
1,3,5-Trimethylbenzene	**19.4**		µg/kg wet		20.0		97	70-130	3	30
Vinyl chloride	**17.9**		µg/kg wet		20.0		90	70-130	6	30
m,p-Xylene	**38.8**		µg/kg wet		40.0		97	70-130	3	30
o-Xylene	**19.3**		µg/kg wet		20.0		97	70-130	3	30
Tetrahydrofuran	**20.1**		µg/kg wet		20.0		100	70-130	3	30
Ethyl ether	**20.9**		µg/kg wet		20.0		105	70-130	2	30
Tert-amyl methyl ether	**18.0**		µg/kg wet		20.0		90	70-130	3	30
Ethyl tert-butyl ether	**21.7**		µg/kg wet		20.0		108	70-130	3	30
Di-isopropyl ether	**19.2**		µg/kg wet		20.0		96	70-130	3	30
Tert-Butanol / butyl alcohol	**254**		µg/kg wet		200		127	70-130	6	30
1,4-Dioxane	**206**		µg/kg wet		200		103	70-130	5	30
trans-1,4-Dichloro-2-butene	**18.7**		µg/kg wet		20.0		93	70-130	8	30
Ethanol	**384**		µg/kg wet		400		96	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*51.5*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*52.6*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.1*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*50.5*		µg/kg wet		*50.0*		*101*	*70-130*		
Batch 1328194 - SW846 5035A Soil (low level)										
Blank (1328194-BLK1)					Prepared & Analyzed: 20-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.0		µg/kg wet	3.0						
Acetone	< 47.5		µg/kg wet	47.5						
Acrylonitrile	< 4.9		µg/kg wet	4.9						
Benzene	< 1.7		µg/kg wet	1.7						
Bromobenzene	< 1.4		µg/kg wet	1.4						
Bromochloromethane	< 4.4		µg/kg wet	4.4						
Bromodichloromethane	< 3.7		µg/kg wet	3.7						
Bromoform	< 2.7		µg/kg wet	2.7						
Bromomethane	< 8.9		µg/kg wet	8.9						
2-Butanone (MEK)	< 15.3		µg/kg wet	15.3						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328194 - SW846 5035A Soil (low level)										
Blank (1328194-BLK1)					Prepared & Analyzed: 20-Nov-13					
n-Butylbenzene	< 3.5		µg/kg wet	3.5						
sec-Butylbenzene	< 2.2		µg/kg wet	2.2						
tert-Butylbenzene	< 1.3		µg/kg wet	1.3						
Carbon disulfide	< 7.2		µg/kg wet	7.2						
Carbon tetrachloride	< 3.7		µg/kg wet	3.7						
Chlorobenzene	< 2.7		µg/kg wet	2.7						
Chloroethane	< 3.3		µg/kg wet	3.3						
Chloroform	< 3.7		µg/kg wet	3.7						
Chloromethane	< 5.1		µg/kg wet	5.1						
2-Chlorotoluene	< 1.5		µg/kg wet	1.5						
4-Chlorotoluene	< 2.3		µg/kg wet	2.3						
1,2-Dibromo-3-chloropropane	< 9.6		µg/kg wet	9.6						
Dibromochloromethane	< 3.6		µg/kg wet	3.6						
1,2-Dibromoethane (EDB)	< 3.8		µg/kg wet	3.8						
Dibromomethane	< 3.4		µg/kg wet	3.4						
1,2-Dichlorobenzene	< 1.7		µg/kg wet	1.7						
1,3-Dichlorobenzene	< 2.2		µg/kg wet	2.2						
1,4-Dichlorobenzene	< 1.9		µg/kg wet	1.9						
Dichlorodifluoromethane (Freon12)	< 2.5		µg/kg wet	2.5						
1,1-Dichloroethane	< 4.9		µg/kg wet	4.9						
1,2-Dichloroethane	< 3.3		µg/kg wet	3.3						
1,1-Dichloroethene	< 2.7		µg/kg wet	2.7						
cis-1,2-Dichloroethene	< 2.2		µg/kg wet	2.2						
trans-1,2-Dichloroethene	< 4.2		µg/kg wet	4.2						
1,2-Dichloropropane	< 2.6		µg/kg wet	2.6						
1,3-Dichloropropane	< 3.7		µg/kg wet	3.7						
2,2-Dichloropropane	< 2.0		µg/kg wet	2.0						
1,1-Dichloropropene	< 1.9		µg/kg wet	1.9						
cis-1,3-Dichloropropene	< 1.8		µg/kg wet	1.8						
trans-1,3-Dichloropropene	< 3.0		µg/kg wet	3.0						
Ethylbenzene	< 3.0		µg/kg wet	3.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 11.6		µg/kg wet	11.6						
Isopropylbenzene	< 1.1		µg/kg wet	1.1						
4-Isopropyltoluene	< 2.4		µg/kg wet	2.4						
Methyl tert-butyl ether	< 3.1		µg/kg wet	3.1						
4-Methyl-2-pentanone (MIBK)	< 20.6		µg/kg wet	20.6						
Methylene chloride	< 4.1		µg/kg wet	4.1						
Naphthalene	< 2.2		µg/kg wet	2.2						
n-Propylbenzene	< 2.0		µg/kg wet	2.0						
Styrene	< 1.5		µg/kg wet	1.5						
1,1,1,2-Tetrachloroethane	< 2.5		µg/kg wet	2.5						
1,1,2,2-Tetrachloroethane	< 4.6		µg/kg wet	4.6						
Tetrachloroethene	< 3.1		µg/kg wet	3.1						
Toluene	< 3.4		µg/kg wet	3.4						
1,2,3-Trichlorobenzene	< 3.5		µg/kg wet	3.5						
1,2,4-Trichlorobenzene	< 3.9		µg/kg wet	3.9						
1,3,5-Trichlorobenzene	< 3.5		µg/kg wet	3.5						
1,1,1-Trichloroethane	< 3.8		µg/kg wet	3.8						
1,1,2-Trichloroethane	< 3.6		µg/kg wet	3.6						
Trichloroethene	< 3.1		µg/kg wet	3.1						
Trichlorofluoromethane (Freon 11)	< 2.1		µg/kg wet	2.1						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328194 - SW846 5035A Soil (low level)										
Blank (1328194-BLK1)					Prepared & Analyzed: 20-Nov-13					
1,2,3-Trichloropropane	< 4.2		µg/kg wet	4.2						
1,2,4-Trimethylbenzene	< 1.7		µg/kg wet	1.7						
1,3,5-Trimethylbenzene	< 2.0		µg/kg wet	2.0						
Vinyl chloride	< 3.0		µg/kg wet	3.0						
m,p-Xylene	< 6.7		µg/kg wet	6.7						
o-Xylene	< 1.3		µg/kg wet	1.3						
Tetrahydrofuran	< 4.9		µg/kg wet	4.9						
Ethyl ether	< 3.6		µg/kg wet	3.6						
Tert-amyl methyl ether	< 1.2		µg/kg wet	1.2						
Ethyl tert-butyl ether	< 2.0		µg/kg wet	2.0						
Di-isopropyl ether	< 2.6		µg/kg wet	2.6						
Tert-Butanol / butyl alcohol	< 49.2		µg/kg wet	49.2						
1,4-Dioxane	< 88.8		µg/kg wet	88.8						
trans-1,4-Dichloro-2-butene	< 8.5		µg/kg wet	8.5						
Ethanol	< 327		µg/kg wet	327						
Surrogate: 4-Bromofluorobenzene	*50.6*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*52.4*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.7*		µg/kg wet		*50.0*		*117*	*70-130*		
Surrogate: Dibromofluoromethane	*54.8*		µg/kg wet		*50.0*		*110*	*70-130*		
LCS (1328194-BS1)					Prepared & Analyzed: 20-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.2**		µg/kg wet		20.0		101	70-130		
Acetone	**20.1**		µg/kg wet		20.0		100	70-130		
Acrylonitrile	**20.6**		µg/kg wet		20.0		103	70-130		
Benzene	**19.7**		µg/kg wet		20.0		98	70-130		
Bromobenzene	**19.8**		µg/kg wet		20.0		99	70-130		
Bromochloromethane	**21.2**		µg/kg wet		20.0		106	70-130		
Bromodichloromethane	**20.9**		µg/kg wet		20.0		105	70-130		
Bromoform	**18.0**		µg/kg wet		20.0		90	70-130		
Bromomethane	**18.9**		µg/kg wet		20.0		95	70-130		
2-Butanone (MEK)	**18.1**		µg/kg wet		20.0		91	70-130		
n-Butylbenzene	**15.3**		µg/kg wet		20.0		76	70-130		
sec-Butylbenzene	**19.3**		µg/kg wet		20.0		96	70-130		
tert-Butylbenzene	**19.1**		µg/kg wet		20.0		95	70-130		
Carbon disulfide	**19.2**		µg/kg wet		20.0		96	70-130		
Carbon tetrachloride	**21.1**		µg/kg wet		20.0		105	70-130		
Chlorobenzene	**19.0**		µg/kg wet		20.0		95	70-130		
Chloroethane	**19.0**		µg/kg wet		20.0		95	70-130		
Chloroform	**18.7**		µg/kg wet		20.0		94	70-130		
Chloromethane	**18.3**		µg/kg wet		20.0		91	70-130		
2-Chlorotoluene	**18.4**		µg/kg wet		20.0		92	70-130		
4-Chlorotoluene	**18.8**		µg/kg wet		20.0		94	70-130		
1,2-Dibromo-3-chloropropane	**15.7**		µg/kg wet		20.0		78	70-130		
Dibromochloromethane	**19.1**		µg/kg wet		20.0		95	70-130		
1,2-Dibromoethane (EDB)	**21.8**		µg/kg wet		20.0		109	70-130		
Dibromomethane	**20.7**		µg/kg wet		20.0		104	70-130		
1,2-Dichlorobenzene	**17.4**		µg/kg wet		20.0		87	70-130		
1,3-Dichlorobenzene	**19.7**		µg/kg wet		20.0		99	70-130		
1,4-Dichlorobenzene	**17.5**		µg/kg wet		20.0		87	70-130		
Dichlorodifluoromethane (Freon12)	**19.2**		µg/kg wet		20.0		96	70-130		
1,1-Dichloroethane	**19.5**		µg/kg wet		20.0		97	70-130		
1,2-Dichloroethane	**19.8**		µg/kg wet		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328194 - SW846 5035A Soil (low level)										
LCS (1328194-BS1)					Prepared & Analyzed: 20-Nov-13					
1,1-Dichloroethene	**19.8**		µg/kg wet		20.0		99	70-130		
cis-1,2-Dichloroethene	**20.0**		µg/kg wet		20.0		100	70-130		
trans-1,2-Dichloroethene	**19.5**		µg/kg wet		20.0		98	70-130		
1,2-Dichloropropane	**19.7**		µg/kg wet		20.0		98	70-130		
1,3-Dichloropropane	**20.2**		µg/kg wet		20.0		101	70-130		
2,2-Dichloropropane	**20.2**		µg/kg wet		20.0		101	70-130		
1,1-Dichloropropene	**18.9**		µg/kg wet		20.0		94	70-130		
cis-1,3-Dichloropropene	**17.9**		µg/kg wet		20.0		89	70-130		
trans-1,3-Dichloropropene	**19.4**		µg/kg wet		20.0		97	70-130		
Ethylbenzene	**18.7**		µg/kg wet		20.0		94	70-130		
Hexachlorobutadiene	**17.3**		µg/kg wet		20.0		86	70-130		
2-Hexanone (MBK)	**16.0**		µg/kg wet		20.0		80	70-130		
Isopropylbenzene	**19.0**		µg/kg wet		20.0		95	70-130		
4-Isopropyltoluene	**17.2**		µg/kg wet		20.0		86	70-130		
Methyl tert-butyl ether	**20.2**		µg/kg wet		20.0		101	70-130		
4-Methyl-2-pentanone (MIBK)	**19.1**		µg/kg wet		20.0		95	70-130		
Methylene chloride	**19.4**		µg/kg wet		20.0		97	70-130		
Naphthalene	**15.9**		µg/kg wet		20.0		79	70-130		
n-Propylbenzene	**19.4**		µg/kg wet		20.0		97	70-130		
Styrene	**19.3**		µg/kg wet		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	**20.6**		µg/kg wet		20.0		103	70-130		
1,1,2,2-Tetrachloroethane	**20.3**		µg/kg wet		20.0		101	70-130		
Tetrachloroethene	**20.9**		µg/kg wet		20.0		104	70-130		
Toluene	**19.4**		µg/kg wet		20.0		97	70-130		
1,2,3-Trichlorobenzene	**16.5**		µg/kg wet		20.0		82	70-130		
1,2,4-Trichlorobenzene	**15.6**		µg/kg wet		20.0		78	70-130		
1,3,5-Trichlorobenzene	**17.9**		µg/kg wet		20.0		90	70-130		
1,1,1-Trichloroethane	**20.4**		µg/kg wet		20.0		102	70-130		
1,1,2-Trichloroethane	**21.0**		µg/kg wet		20.0		105	70-130		
Trichloroethene	**19.7**		µg/kg wet		20.0		98	70-130		
Trichlorofluoromethane (Freon 11)	**20.8**		µg/kg wet		20.0		104	70-130		
1,2,3-Trichloropropane	**19.6**		µg/kg wet		20.0		98	70-130		
1,2,4-Trimethylbenzene	**19.7**		µg/kg wet		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.2**		µg/kg wet		20.0		96	70-130		
Vinyl chloride	**19.6**		µg/kg wet		20.0		98	70-130		
m,p-Xylene	**38.6**		µg/kg wet		40.0		96	70-130		
o-Xylene	**19.6**		µg/kg wet		20.0		98	70-130		
Tetrahydrofuran	**19.2**		µg/kg wet		20.0		96	70-130		
Ethyl ether	**20.2**		µg/kg wet		20.0		101	70-130		
Tert-amyl methyl ether	**19.8**		µg/kg wet		20.0		99	70-130		
Ethyl tert-butyl ether	**20.5**		µg/kg wet		20.0		102	70-130		
Di-isopropyl ether	**18.7**		µg/kg wet		20.0		94	70-130		
Tert-Butanol / butyl alcohol	**225**		µg/kg wet		200		113	70-130		
1,4-Dioxane	**170**		µg/kg wet		200		85	70-130		
trans-1,4-Dichloro-2-butene	**19.8**		µg/kg wet		20.0		99	70-130		
Ethanol	**381**		µg/kg wet		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*52.9*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*52.0*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.7*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*53.0*		µg/kg wet		*50.0*		*106*	*70-130*		
LCS Dup (1328194-BSD1)					Prepared & Analyzed: 20-Nov-13					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328194 - SW846 5035A Soil (low level)										
LCS Dup (1328194-BSD1)						Prepared & Analyzed: 20-Nov-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.5**		µg/kg wet		20.0		97	70-130	4	30
Acetone	**21.7**		µg/kg wet		20.0		109	70-130	8	30
Acrylonitrile	**20.6**		µg/kg wet		20.0		103	70-130	0.1	30
Benzene	**19.1**		µg/kg wet		20.0		96	70-130	3	30
Bromobenzene	**19.1**		µg/kg wet		20.0		96	70-130	3	30
Bromochloromethane	**21.1**		µg/kg wet		20.0		106	70-130	0.5	30
Bromodichloromethane	**20.1**		µg/kg wet		20.0		100	70-130	4	30
Bromoform	**18.4**		µg/kg wet		20.0		92	70-130	2	30
Bromomethane	**18.9**		µg/kg wet		20.0		94	70-130	0.4	30
2-Butanone (MEK)	**18.6**		µg/kg wet		20.0		93	70-130	3	30
n-Butylbenzene	**14.8**		µg/kg wet		20.0		74	70-130	3	30
sec-Butylbenzene	**18.6**		µg/kg wet		20.0		93	70-130	4	30
tert-Butylbenzene	**18.4**		µg/kg wet		20.0		92	70-130	3	30
Carbon disulfide	**19.0**		µg/kg wet		20.0		95	70-130	2	30
Carbon tetrachloride	**20.6**		µg/kg wet		20.0		103	70-130	2	30
Chlorobenzene	**18.4**		µg/kg wet		20.0		92	70-130	3	30
Chloroethane	**18.8**		µg/kg wet		20.0		94	70-130	1	30
Chloroform	**18.0**		µg/kg wet		20.0		90	70-130	4	30
Chloromethane	**17.7**		µg/kg wet		20.0		89	70-130	3	30
2-Chlorotoluene	**17.6**		µg/kg wet		20.0		88	70-130	5	30
4-Chlorotoluene	**18.4**		µg/kg wet		20.0		92	70-130	2	30
1,2-Dibromo-3-chloropropane	**14.6**		µg/kg wet		20.0		73	70-130	7	30
Dibromochloromethane	**18.4**		µg/kg wet		20.0		92	70-130	3	30
1,2-Dibromoethane (EDB)	**21.5**		µg/kg wet		20.0		107	70-130	1	30
Dibromomethane	**20.4**		µg/kg wet		20.0		102	70-130	2	30
1,2-Dichlorobenzene	**16.9**		µg/kg wet		20.0		85	70-130	3	30
1,3-Dichlorobenzene	**18.8**		µg/kg wet		20.0		94	70-130	5	30
1,4-Dichlorobenzene	**16.5**		µg/kg wet		20.0		82	70-130	6	30
Dichlorodifluoromethane (Freon12)	**18.8**		µg/kg wet		20.0		94	70-130	2	30
1,1-Dichloroethane	**19.0**		µg/kg wet		20.0		95	70-130	2	30
1,2-Dichloroethane	**19.2**		µg/kg wet		20.0		96	70-130	3	30
1,1-Dichloroethene	**19.4**		µg/kg wet		20.0		97	70-130	2	30
cis-1,2-Dichloroethene	**19.4**		µg/kg wet		20.0		97	70-130	3	30
trans-1,2-Dichloroethene	**19.2**		µg/kg wet		20.0		96	70-130	2	30
1,2-Dichloropropane	**19.1**		µg/kg wet		20.0		96	70-130	3	30
1,3-Dichloropropane	**19.6**		µg/kg wet		20.0		98	70-130	3	30
2,2-Dichloropropane	**19.1**		µg/kg wet		20.0		96	70-130	6	30
1,1-Dichloropropene	**18.5**		µg/kg wet		20.0		93	70-130	2	30
cis-1,3-Dichloropropene	**17.0**		µg/kg wet		20.0		85	70-130	5	30
trans-1,3-Dichloropropene	**18.4**		µg/kg wet		20.0		92	70-130	5	30
Ethylbenzene	**18.1**		µg/kg wet		20.0		90	70-130	4	30
Hexachlorobutadiene	**16.1**		µg/kg wet		20.0		80	70-130	7	30
2-Hexanone (MBK)	**15.6**		µg/kg wet		20.0		78	70-130	3	30
Isopropylbenzene	**18.2**		µg/kg wet		20.0		91	70-130	4	30
4-Isopropyltoluene	**16.4**		µg/kg wet		20.0		82	70-130	5	30
Methyl tert-butyl ether	**19.4**		µg/kg wet		20.0		97	70-130	4	30
4-Methyl-2-pentanone (MIBK)	**18.4**		µg/kg wet		20.0		92	70-130	3	30
Methylene chloride	**18.8**		µg/kg wet		20.0		94	70-130	3	30
Naphthalene	**15.5**		µg/kg wet		20.0		78	70-130	2	30
n-Propylbenzene	**18.6**		µg/kg wet		20.0		93	70-130	4	30
Styrene	**18.6**		µg/kg wet		20.0		93	70-130	4	30
1,1,1,2-Tetrachloroethane	**20.0**		µg/kg wet		20.0		100	70-130	3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328194 - SW846 5035A Soil (low level)										
LCS Dup (1328194-BSD1)					Prepared & Analyzed: 20-Nov-13					
1,1,2,2-Tetrachloroethane	**20.2**		µg/kg wet		20.0		101	70-130	0.2	30
Tetrachloroethene	**20.0**		µg/kg wet		20.0		100	70-130	4	30
Toluene	**18.7**		µg/kg wet		20.0		94	70-130	4	30
1,2,3-Trichlorobenzene	**15.7**		µg/kg wet		20.0		78	70-130	5	30
1,2,4-Trichlorobenzene	**14.8**		µg/kg wet		20.0		74	70-130	5	30
1,3,5-Trichlorobenzene	**16.7**		µg/kg wet		20.0		84	70-130	7	30
1,1,1-Trichloroethane	**19.9**		µg/kg wet		20.0		99	70-130	3	30
1,1,2-Trichloroethane	**20.7**		µg/kg wet		20.0		104	70-130	2	30
Trichloroethene	**19.4**		µg/kg wet		20.0		97	70-130	2	30
Trichlorofluoromethane (Freon 11)	**20.1**		µg/kg wet		20.0		101	70-130	3	30
1,2,3-Trichloropropane	**19.1**		µg/kg wet		20.0		96	70-130	2	30
1,2,4-Trimethylbenzene	**18.8**		µg/kg wet		20.0		94	70-130	4	30
1,3,5-Trimethylbenzene	**18.3**		µg/kg wet		20.0		91	70-130	5	30
Vinyl chloride	**19.5**		µg/kg wet		20.0		97	70-130	0.8	30
m,p-Xylene	**37.4**		µg/kg wet		40.0		94	70-130	3	30
o-Xylene	**18.7**		µg/kg wet		20.0		94	70-130	5	30
Tetrahydrofuran	**19.3**		µg/kg wet		20.0		97	70-130	0.5	30
Ethyl ether	**19.2**		µg/kg wet		20.0		96	70-130	5	30
Tert-amyl methyl ether	**18.8**		µg/kg wet		20.0		94	70-130	5	30
Ethyl tert-butyl ether	**19.8**		µg/kg wet		20.0		99	70-130	3	30
Di-isopropyl ether	**18.1**		µg/kg wet		20.0		90	70-130	4	30
Tert-Butanol / butyl alcohol	**230**		µg/kg wet		200		115	70-130	2	30
1,4-Dioxane	**189**		µg/kg wet		200		94	70-130	10	30
trans-1,4-Dichloro-2-butene	**18.4**		µg/kg wet		20.0		92	70-130	7	30
Ethanol	**391**		µg/kg wet		400		98	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*52.4*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*52.0*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.8*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*53.2*		µg/kg wet		*50.0*		*106*	*70-130*		
Batch 1328230 - SW846 5030 Water MS										
Blank (1328230-BLK1)					Prepared & Analyzed: 20-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 0.65	U	µg/l	0.65						
Acetone	< 2.56	U	µg/l	2.56						
Acrylonitrile	< 0.48	U	µg/l	0.48						
Benzene	< 0.67	U	µg/l	0.67						
Bromobenzene	< 0.72	U	µg/l	0.72						
Bromochloromethane	< 0.71	U	µg/l	0.71						
Bromodichloromethane	< 0.48	U	µg/l	0.48						
Bromoform	< 0.60	U	µg/l	0.60						
Bromomethane	< 1.14	U	µg/l	1.14						
2-Butanone (MEK)	< 1.93	U	µg/l	1.93						
n-Butylbenzene	< 0.56	U	µg/l	0.56						
sec-Butylbenzene	< 0.82	U	µg/l	0.82						
tert-Butylbenzene	< 0.74	U	µg/l	0.74						
Carbon disulfide	< 1.28	U	µg/l	1.28						
Carbon tetrachloride	< 0.55	U	µg/l	0.55						
Chlorobenzene	< 0.65	U	µg/l	0.65						
Chloroethane	< 1.00	U	µg/l	1.00						
Chloroform	< 0.69	U	µg/l	0.69						
Chloromethane	< 1.47	U	µg/l	1.47						
2-Chlorotoluene	< 0.79	U	µg/l	0.79						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328230 - SW846 5030 Water MS										
Blank (1328230-BLK1)					Prepared & Analyzed: 20-Nov-13					
4-Chlorotoluene	< 0.73	U	µg/l	0.73						
1,2-Dibromo-3-chloropropane	< 1.20	U	µg/l	1.20						
Dibromochloromethane	< 0.34	U	µg/l	0.34						
1,2-Dibromoethane (EDB)	< 0.36	U	µg/l	0.36						
Dibromomethane	< 0.67	U	µg/l	0.67						
1,2-Dichlorobenzene	< 0.67	U	µg/l	0.67						
1,3-Dichlorobenzene	< 0.71	U	µg/l	0.71						
1,4-Dichlorobenzene	< 0.62	U	µg/l	0.62						
Dichlorodifluoromethane (Freon12)	< 0.45	U	µg/l	0.45						
1,1-Dichloroethane	< 0.68	U	µg/l	0.68						
1,2-Dichloroethane	< 0.78	U	µg/l	0.78						
1,1-Dichloroethene	< 0.49	U	µg/l	0.49						
cis-1,2-Dichloroethene	< 0.72	U	µg/l	0.72						
trans-1,2-Dichloroethene	< 0.83	U	µg/l	0.83						
1,2-Dichloropropane	< 0.77	U	µg/l	0.77						
1,3-Dichloropropane	< 0.81	U	µg/l	0.81						
2,2-Dichloropropane	< 0.87	U	µg/l	0.87						
1,1-Dichloropropene	< 0.64	U	µg/l	0.64						
cis-1,3-Dichloropropene	< 0.36	U	µg/l	0.36						
trans-1,3-Dichloropropene	< 0.50	U	µg/l	0.50						
Ethylbenzene	< 0.95	U	µg/l	0.95						
Hexachlorobutadiene	< 0.49	U	µg/l	0.49						
2-Hexanone (MBK)	< 0.66	U	µg/l	0.66						
Isopropylbenzene	< 0.62	U	µg/l	0.62						
4-Isopropyltoluene	< 0.61	U	µg/l	0.61						
Methyl tert-butyl ether	< 0.65	U	µg/l	0.65						
4-Methyl-2-pentanone (MIBK)	< 2.76	U	µg/l	2.76						
Methylene chloride	< 0.95	U	µg/l	0.95						
Naphthalene	< 0.58	U	µg/l	0.58						
n-Propylbenzene	< 0.76	U	µg/l	0.76						
Styrene	< 0.62	U	µg/l	0.62						
1,1,1,2-Tetrachloroethane	< 0.67	U	µg/l	0.67						
1,1,2,2-Tetrachloroethane	< 0.32	U	µg/l	0.32						
Tetrachloroethene	< 0.74	U	µg/l	0.74						
Toluene	< 0.81	U	µg/l	0.81						
1,2,3-Trichlorobenzene	< 0.38	U	µg/l	0.38						
1,2,4-Trichlorobenzene	< 0.36	U	µg/l	0.36						
1,3,5-Trichlorobenzene	< 0.78	U	µg/l	0.78						
1,1,1-Trichloroethane	< 0.58	U	µg/l	0.58						
1,1,2-Trichloroethane	< 0.64	U	µg/l	0.64						
Trichloroethene	< 0.76	U	µg/l	0.76						
Trichlorofluoromethane (Freon 11)	< 0.63	U	µg/l	0.63						
1,2,3-Trichloropropane	< 0.74	U	µg/l	0.74						
1,2,4-Trimethylbenzene	< 0.76	U	µg/l	0.76						
1,3,5-Trimethylbenzene	< 0.74	U	µg/l	0.74						
Vinyl chloride	< 0.81	U	µg/l	0.81						
m,p-Xylene	< 1.64	U	µg/l	1.64						
o-Xylene	< 0.88	U	µg/l	0.88						
Tetrahydrofuran	< 1.44	U	µg/l	1.44						
Ethyl ether	< 0.69	U	µg/l	0.69						
Tert-amyl methyl ether	< 0.72	U	µg/l	0.72						
Ethyl tert-butyl ether	< 0.78	U	µg/l	0.78						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328230 - SW846 5030 Water MS										
Blank (1328230-BLK1)						Prepared & Analyzed: 20-Nov-13				
Di-isopropyl ether	< 0.73	U	µg/l	0.73						
Tert-Butanol / butyl alcohol	< 8.64	U	µg/l	8.64						
1,4-Dioxane	< 12.0	U	µg/l	12.0						
trans-1,4-Dichloro-2-butene	< 0.74	U	µg/l	0.74						
Ethanol	< 35.0	U	µg/l	35.0						
Surrogate: 4-Bromofluorobenzene	*26.5*		µg/l		*30.0*		*88*	*70-130*		
Surrogate: Toluene-d8	*29.2*		µg/l		*30.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*30.6*		µg/l		*30.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*32.9*		µg/l		*30.0*		*110*	*70-130*		
LCS (1328230-BS1)						Prepared & Analyzed: 20-Nov-13				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.5**		µg/l		20.0		103	70-130		
Acetone	**21.9**		µg/l		20.0		109	70-130		
Acrylonitrile	**20.7**		µg/l		20.0		103	70-130		
Benzene	**20.9**		µg/l		20.0		104	70-130		
Bromobenzene	**21.4**		µg/l		20.0		107	70-130		
Bromochloromethane	**20.5**		µg/l		20.0		102	70-130		
Bromodichloromethane	**20.3**		µg/l		20.0		101	70-130		
Bromoform	**22.2**		µg/l		20.0		111	70-130		
Bromomethane	**21.3**		µg/l		20.0		107	70-130		
2-Butanone (MEK)	**21.8**		µg/l		20.0		109	70-130		
n-Butylbenzene	**20.4**		µg/l		20.0		102	70-130		
sec-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
tert-Butylbenzene	**22.0**		µg/l		20.0		110	70-130		
Carbon disulfide	**21.3**		µg/l		20.0		107	70-130		
Carbon tetrachloride	**20.2**		µg/l		20.0		101	70-130		
Chlorobenzene	**20.5**		µg/l		20.0		103	70-130		
Chloroethane	**20.6**		µg/l		20.0		103	70-130		
Chloroform	**21.1**		µg/l		20.0		105	70-130		
Chloromethane	**20.3**		µg/l		20.0		102	70-130		
2-Chlorotoluene	**20.7**		µg/l		20.0		104	70-130		
4-Chlorotoluene	**20.1**		µg/l		20.0		100	70-130		
1,2-Dibromo-3-chloropropane	**21.4**		µg/l		20.0		107	70-130		
Dibromochloromethane	**21.0**		µg/l		20.0		105	70-130		
1,2-Dibromoethane (EDB)	**20.8**		µg/l		20.0		104	70-130		
Dibromomethane	**19.9**		µg/l		20.0		99	70-130		
1,2-Dichlorobenzene	**21.4**		µg/l		20.0		107	70-130		
1,3-Dichlorobenzene	**22.6**		µg/l		20.0		113	70-130		
1,4-Dichlorobenzene	**19.6**		µg/l		20.0		98	70-130		
Dichlorodifluoromethane (Freon12)	**21.0**		µg/l		20.0		105	70-130		
1,1-Dichloroethane	**20.5**		µg/l		20.0		102	70-130		
1,2-Dichloroethane	**20.0**		µg/l		20.0		100	70-130		
1,1-Dichloroethene	**19.8**		µg/l		20.0		99	70-130		
cis-1,2-Dichloroethene	**21.1**		µg/l		20.0		106	70-130		
trans-1,2-Dichloroethene	**20.8**		µg/l		20.0		104	70-130		
1,2-Dichloropropane	**20.2**		µg/l		20.0		101	70-130		
1,3-Dichloropropane	**20.3**		µg/l		20.0		101	70-130		
2,2-Dichloropropane	**22.0**		µg/l		20.0		110	70-130		
1,1-Dichloropropene	**23.1**		µg/l		20.0		116	70-130		
cis-1,3-Dichloropropene	**20.9**		µg/l		20.0		104	70-130		
trans-1,3-Dichloropropene	**20.8**		µg/l		20.0		104	70-130		
Ethylbenzene	**19.2**		µg/l		20.0		96	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328230 - SW846 5030 Water MS										
LCS (1328230-BS1)					Prepared & Analyzed: 20-Nov-13					
Hexachlorobutadiene	**19.6**		µg/l		20.0		98	70-130		
2-Hexanone (MBK)	**20.5**		µg/l		20.0		103	70-130		
Isopropylbenzene	**22.4**		µg/l		20.0		112	70-130		
4-Isopropyltoluene	**21.5**		µg/l		20.0		108	70-130		
Methyl tert-butyl ether	**21.0**		µg/l		20.0		105	70-130		
4-Methyl-2-pentanone (MIBK)	**20.4**		µg/l		20.0		102	70-130		
Methylene chloride	**20.0**		µg/l		20.0		100	70-130		
Naphthalene	**15.9**		µg/l		20.0		79	70-130		
n-Propylbenzene	**20.9**		µg/l		20.0		104	70-130		
Styrene	**21.0**		µg/l		20.0		105	70-130		
1,1,1,2-Tetrachloroethane	**21.5**		µg/l		20.0		107	70-130		
1,1,2,2-Tetrachloroethane	**23.9**		µg/l		20.0		119	70-130		
Tetrachloroethene	**20.1**		µg/l		20.0		101	70-130		
Toluene	**20.0**		µg/l		20.0		100	70-130		
1,2,3-Trichlorobenzene	**17.9**		µg/l		20.0		90	70-130		
1,2,4-Trichlorobenzene	**16.4**		µg/l		20.0		82	70-130		
1,3,5-Trichlorobenzene	**19.1**		µg/l		20.0		95	70-130		
1,1,1-Trichloroethane	**21.3**		µg/l		20.0		106	70-130		
1,1,2-Trichloroethane	**19.9**		µg/l		20.0		99	70-130		
Trichloroethene	**19.0**		µg/l		20.0		95	70-130		
Trichlorofluoromethane (Freon 11)	**20.4**		µg/l		20.0		102	70-130		
1,2,3-Trichloropropane	**19.6**		µg/l		20.0		98	70-130		
1,2,4-Trimethylbenzene	**21.9**		µg/l		20.0		110	70-130		
1,3,5-Trimethylbenzene	**21.9**		µg/l		20.0		109	70-130		
Vinyl chloride	**21.2**		µg/l		20.0		106	70-130		
m,p-Xylene	**41.0**		µg/l		40.0		103	70-130		
o-Xylene	**20.4**		µg/l		20.0		102	70-130		
Tetrahydrofuran	**22.8**		µg/l		20.0		114	70-130		
Ethyl ether	**21.4**		µg/l		20.0		107	70-130		
Tert-amyl methyl ether	**20.4**		µg/l		20.0		102	70-130		
Ethyl tert-butyl ether	**20.9**		µg/l		20.0		104	70-130		
Di-isopropyl ether	**21.8**		µg/l		20.0		109	70-130		
Tert-Butanol / butyl alcohol	**208**		µg/l		200		104	70-130		
1,4-Dioxane	**204**		µg/l		200		102	70-130		
trans-1,4-Dichloro-2-butene	**22.0**		µg/l		20.0		110	70-130		
Ethanol	**415**		µg/l		400		104	70-130		
Surrogate: 4-Bromofluorobenzene	*31.4*		µg/l		*30.0*		*105*	*70-130*		
Surrogate: Toluene-d8	*30.2*		µg/l		*30.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*29.4*		µg/l		*30.0*		*98*	*70-130*		
Surrogate: Dibromofluoromethane	*29.5*		µg/l		*30.0*		*98*	*70-130*		
LCS Dup (1328230-BSD1)					Prepared & Analyzed: 20-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.3**		µg/l		20.0		102	70-130	1	20
Acetone	**22.0**		µg/l		20.0		110	70-130	0.5	20
Acrylonitrile	**20.5**		µg/l		20.0		103	70-130	0.7	20
Benzene	**21.9**		µg/l		20.0		109	70-130	5	20
Bromobenzene	**21.7**		µg/l		20.0		108	70-130	1	20
Bromochloromethane	**21.1**		µg/l		20.0		106	70-130	3	20
Bromodichloromethane	**20.3**		µg/l		20.0		102	70-130	0.05	20
Bromoform	**21.8**		µg/l		20.0		109	70-130	2	20
Bromomethane	**23.0**		µg/l		20.0		115	70-130	8	20
2-Butanone (MEK)	**22.4**		µg/l		20.0		112	70-130	3	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328230 - SW846 5030 Water MS										
LCS Dup (1328230-BSD1)					Prepared & Analyzed: 20-Nov-13					
n-Butylbenzene	**20.6**		µg/l		20.0		103	70-130	1	20
sec-Butylbenzene	**22.1**		µg/l		20.0		111	70-130	0.6	20
tert-Butylbenzene	**21.8**		µg/l		20.0		109	70-130	1	20
Carbon disulfide	**21.4**		µg/l		20.0		107	70-130	0.2	20
Carbon tetrachloride	**20.8**		µg/l		20.0		104	70-130	3	20
Chlorobenzene	**20.6**		µg/l		20.0		103	70-130	0.2	20
Chloroethane	**20.1**		µg/l		20.0		100	70-130	3	20
Chloroform	**21.2**		µg/l		20.0		106	70-130	0.4	20
Chloromethane	**20.7**		µg/l		20.0		103	70-130	2	20
2-Chlorotoluene	**20.8**		µg/l		20.0		104	70-130	0.6	20
4-Chlorotoluene	**20.2**		µg/l		20.0		101	70-130	0.7	20
1,2-Dibromo-3-chloropropane	**20.1**		µg/l		20.0		101	70-130	6	20
Dibromochloromethane	**21.1**		µg/l		20.0		105	70-130	0.3	20
1,2-Dibromoethane (EDB)	**21.0**		µg/l		20.0		105	70-130	1	20
Dibromomethane	**19.6**		µg/l		20.0		98	70-130	1	20
1,2-Dichlorobenzene	**21.3**		µg/l		20.0		106	70-130	0.7	20
1,3-Dichlorobenzene	**22.6**		µg/l		20.0		113	70-130	0	20
1,4-Dichlorobenzene	**19.9**		µg/l		20.0		100	70-130	2	20
Dichlorodifluoromethane (Freon12)	**21.2**		µg/l		20.0		106	70-130	0.8	20
1,1-Dichloroethane	**20.8**		µg/l		20.0		104	70-130	2	20
1,2-Dichloroethane	**19.5**		µg/l		20.0		98	70-130	2	20
1,1-Dichloroethene	**20.3**		µg/l		20.0		102	70-130	2	20
cis-1,2-Dichloroethene	**20.5**		µg/l		20.0		103	70-130	3	20
trans-1,2-Dichloroethene	**20.8**		µg/l		20.0		104	70-130	0.1	20
1,2-Dichloropropane	**20.4**		µg/l		20.0		102	70-130	1	20
1,3-Dichloropropane	**20.6**		µg/l		20.0		103	70-130	2	20
2,2-Dichloropropane	**22.0**		µg/l		20.0		110	70-130	0.2	20
1,1-Dichloropropene	**22.8**		µg/l		20.0		114	70-130	2	20
cis-1,3-Dichloropropene	**20.6**		µg/l		20.0		103	70-130	1	20
trans-1,3-Dichloropropene	**21.8**		µg/l		20.0		109	70-130	5	20
Ethylbenzene	**20.0**		µg/l		20.0		100	70-130	4	20
Hexachlorobutadiene	**18.7**		µg/l		20.0		94	70-130	4	20
2-Hexanone (MBK)	**20.9**		µg/l		20.0		104	70-130	2	20
Isopropylbenzene	**22.4**		µg/l		20.0		112	70-130	0.09	20
4-Isopropyltoluene	**21.1**		µg/l		20.0		106	70-130	2	20
Methyl tert-butyl ether	**20.2**		µg/l		20.0		101	70-130	4	20
4-Methyl-2-pentanone (MIBK)	**20.5**		µg/l		20.0		103	70-130	0.6	20
Methylene chloride	**20.6**		µg/l		20.0		103	70-130	3	20
Naphthalene	**17.4**		µg/l		20.0		87	70-130	9	20
n-Propylbenzene	**21.4**		µg/l		20.0		107	70-130	3	20
Styrene	**21.4**		µg/l		20.0		107	70-130	2	20
1,1,1,2-Tetrachloroethane	**21.1**		µg/l		20.0		106	70-130	2	20
1,1,2,2-Tetrachloroethane	**23.3**		µg/l		20.0		116	70-130	3	20
Tetrachloroethene	**21.4**		µg/l		20.0		107	70-130	6	20
Toluene	**21.3**		µg/l		20.0		106	70-130	6	20
1,2,3-Trichlorobenzene	**17.1**		µg/l		20.0		86	70-130	5	20
1,2,4-Trichlorobenzene	**16.6**		µg/l		20.0		83	70-130	2	20
1,3,5-Trichlorobenzene	**19.0**		µg/l		20.0		95	70-130	0.3	20
1,1,1-Trichloroethane	**20.9**		µg/l		20.0		104	70-130	2	20
1,1,2-Trichloroethane	**21.2**		µg/l		20.0		106	70-130	6	20
Trichloroethene	**19.6**		µg/l		20.0		98	70-130	3	20
Trichlorofluoromethane (Freon 11)	**20.7**		µg/l		20.0		104	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328230 - SW846 5030 Water MS										
LCS Dup (1328230-BSD1)					Prepared & Analyzed: 20-Nov-13					
1,2,3-Trichloropropane	**20.1**		µg/l		20.0		100	70-130	2	20
1,2,4-Trimethylbenzene	**21.6**		µg/l		20.0		108	70-130	2	20
1,3,5-Trimethylbenzene	**22.0**		µg/l		20.0		110	70-130	0.9	20
Vinyl chloride	**22.0**		µg/l		20.0		110	70-130	4	20
m,p-Xylene	**40.4**		µg/l		40.0		101	70-130	2	20
o-Xylene	**21.1**		µg/l		20.0		105	70-130	3	20
Tetrahydrofuran	**22.9**		µg/l		20.0		114	70-130	0.5	20
Ethyl ether	**21.3**		µg/l		20.0		107	70-130	0.5	20
Tert-amyl methyl ether	**21.0**		µg/l		20.0		105	70-130	3	20
Ethyl tert-butyl ether	**21.2**		µg/l		20.0		106	70-130	2	20
Di-isopropyl ether	**21.3**		µg/l		20.0		107	70-130	2	20
Tert-Butanol / butyl alcohol	**213**		µg/l		200		106	70-130	2	20
1,4-Dioxane	**223**		µg/l		200		111	70-130	9	20
trans-1,4-Dichloro-2-butene	**21.8**		µg/l		20.0		109	70-130	1	20
Ethanol	**404**		µg/l		400		101	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*31.1*		µg/l		*30.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*29.8*		µg/l		*30.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*27.6*		µg/l		*30.0*		*92*	*70-130*		
Surrogate: Dibromofluoromethane	*28.9*		µg/l		*30.0*		*96*	*70-130*		
Batch 1328320 - SW846 5035A Soil (low level)										
Blank (1328320-BLK1)					Prepared & Analyzed: 21-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.0		µg/kg wet	3.0						
Acetone	< 47.5		µg/kg wet	47.5						
Acrylonitrile	< 4.9		µg/kg wet	4.9						
Benzene	< 1.7		µg/kg wet	1.7						
Bromobenzene	< 1.4		µg/kg wet	1.4						
Bromochloromethane	< 4.4		µg/kg wet	4.4						
Bromodichloromethane	< 3.7		µg/kg wet	3.7						
Bromoform	< 2.7		µg/kg wet	2.7						
Bromomethane	< 8.9		µg/kg wet	8.9						
2-Butanone (MEK)	< 15.3		µg/kg wet	15.3						
n-Butylbenzene	< 3.5		µg/kg wet	3.5						
sec-Butylbenzene	< 2.2		µg/kg wet	2.2						
tert-Butylbenzene	< 1.3		µg/kg wet	1.3						
Carbon disulfide	< 7.2		µg/kg wet	7.2						
Carbon tetrachloride	< 3.7		µg/kg wet	3.7						
Chlorobenzene	< 2.7		µg/kg wet	2.7						
Chloroethane	< 3.3		µg/kg wet	3.3						
Chloroform	< 3.7		µg/kg wet	3.7						
Chloromethane	< 5.1		µg/kg wet	5.1						
2-Chlorotoluene	< 1.5		µg/kg wet	1.5						
4-Chlorotoluene	< 2.3		µg/kg wet	2.3						
1,2-Dibromo-3-chloropropane	< 9.6		µg/kg wet	9.6						
Dibromochloromethane	< 3.6		µg/kg wet	3.6						
1,2-Dibromoethane (EDB)	< 3.8		µg/kg wet	3.8						
Dibromomethane	< 3.4		µg/kg wet	3.4						
1,2-Dichlorobenzene	< 1.7		µg/kg wet	1.7						
1,3-Dichlorobenzene	< 2.2		µg/kg wet	2.2						
1,4-Dichlorobenzene	< 1.9		µg/kg wet	1.9						
Dichlorodifluoromethane (Freon12)	< 2.5		µg/kg wet	2.5						
1,1-Dichloroethane	< 4.9		µg/kg wet	4.9						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328320 - SW846 5035A Soil (low level)										
Blank (1328320-BLK1)					Prepared & Analyzed: 21-Nov-13					
1,2-Dichloroethane	< 3.3		µg/kg wet	3.3						
1,1-Dichloroethene	< 2.7		µg/kg wet	2.7						
cis-1,2-Dichloroethene	< 2.2		µg/kg wet	2.2						
trans-1,2-Dichloroethene	< 4.2		µg/kg wet	4.2						
1,2-Dichloropropane	< 2.6		µg/kg wet	2.6						
1,3-Dichloropropane	< 3.7		µg/kg wet	3.7						
2,2-Dichloropropane	< 2.0		µg/kg wet	2.0						
1,1-Dichloropropene	< 1.9		µg/kg wet	1.9						
cis-1,3-Dichloropropene	< 1.8		µg/kg wet	1.8						
trans-1,3-Dichloropropene	< 3.0		µg/kg wet	3.0						
Ethylbenzene	< 3.0		µg/kg wet	3.0						
Hexachlorobutadiene	< 5.0		µg/kg wet	5.0						
2-Hexanone (MBK)	< 11.6		µg/kg wet	11.6						
Isopropylbenzene	< 1.1		µg/kg wet	1.1						
4-Isopropyltoluene	< 2.4		µg/kg wet	2.4						
Methyl tert-butyl ether	< 3.1		µg/kg wet	3.1						
4-Methyl-2-pentanone (MIBK)	< 20.6		µg/kg wet	20.6						
Methylene chloride	< 4.1		µg/kg wet	4.1						
Naphthalene	< 2.2		µg/kg wet	2.2						
n-Propylbenzene	< 2.0		µg/kg wet	2.0						
Styrene	< 1.5		µg/kg wet	1.5						
1,1,1,2-Tetrachloroethane	< 2.5		µg/kg wet	2.5						
1,1,2,2-Tetrachloroethane	< 4.6		µg/kg wet	4.6						
Tetrachloroethene	< 3.1		µg/kg wet	3.1						
Toluene	< 3.4		µg/kg wet	3.4						
1,2,3-Trichlorobenzene	< 3.5		µg/kg wet	3.5						
1,2,4-Trichlorobenzene	< 3.9		µg/kg wet	3.9						
1,3,5-Trichlorobenzene	< 3.5		µg/kg wet	3.5						
1,1,1-Trichloroethane	< 3.8		µg/kg wet	3.8						
1,1,2-Trichloroethane	< 3.6		µg/kg wet	3.6						
Trichloroethene	< 3.1		µg/kg wet	3.1						
Trichlorofluoromethane (Freon 11)	< 2.1		µg/kg wet	2.1						
1,2,3-Trichloropropane	< 4.2		µg/kg wet	4.2						
1,2,4-Trimethylbenzene	< 1.7		µg/kg wet	1.7						
1,3,5-Trimethylbenzene	< 2.0		µg/kg wet	2.0						
Vinyl chloride	< 3.0		µg/kg wet	3.0						
m,p-Xylene	< 6.7		µg/kg wet	6.7						
o-Xylene	< 1.3		µg/kg wet	1.3						
Tetrahydrofuran	< 4.9		µg/kg wet	4.9						
Ethyl ether	< 3.6		µg/kg wet	3.6						
Tert-amyl methyl ether	< 1.2		µg/kg wet	1.2						
Ethyl tert-butyl ether	< 2.0		µg/kg wet	2.0						
Di-isopropyl ether	< 2.6		µg/kg wet	2.6						
Tert-Butanol / butyl alcohol	< 49.2		µg/kg wet	49.2						
1,4-Dioxane	< 88.8		µg/kg wet	88.8						
trans-1,4-Dichloro-2-butene	< 8.5		µg/kg wet	8.5						
Ethanol	< 327		µg/kg wet	327						
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*53.0*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.0*		µg/kg wet		*50.0*		*118*	*70-130*		
Surrogate: Dibromofluoromethane	*56.0*		µg/kg wet		*50.0*		*112*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328320 - SW846 5035A Soil (low level)										
LCS (1328320-BS1)					Prepared & Analyzed: 21-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.1**		µg/kg wet		20.0		100	70-130		
Acetone	**19.8**		µg/kg wet		20.0		99	70-130		
Acrylonitrile	**21.8**		µg/kg wet		20.0		109	70-130		
Benzene	**20.1**		µg/kg wet		20.0		100	70-130		
Bromobenzene	**20.4**		µg/kg wet		20.0		102	70-130		
Bromochloromethane	**22.1**		µg/kg wet		20.0		110	70-130		
Bromodichloromethane	**22.0**		µg/kg wet		20.0		110	70-130		
Bromoform	**19.8**		µg/kg wet		20.0		99	70-130		
Bromomethane	**18.9**		µg/kg wet		20.0		95	70-130		
2-Butanone (MEK)	**15.1**		µg/kg wet		20.0		75	70-130		
n-Butylbenzene	**15.3**		µg/kg wet		20.0		77	70-130		
sec-Butylbenzene	**19.6**		µg/kg wet		20.0		98	70-130		
tert-Butylbenzene	**19.6**		µg/kg wet		20.0		98	70-130		
Carbon disulfide	**19.8**		µg/kg wet		20.0		99	70-130		
Carbon tetrachloride	**22.1**		µg/kg wet		20.0		111	70-130		
Chlorobenzene	**19.7**		µg/kg wet		20.0		99	70-130		
Chloroethane	**18.8**		µg/kg wet		20.0		94	70-130		
Chloroform	**19.8**		µg/kg wet		20.0		99	70-130		
Chloromethane	**18.1**		µg/kg wet		20.0		90	70-130		
2-Chlorotoluene	**18.8**		µg/kg wet		20.0		94	70-130		
4-Chlorotoluene	**19.5**		µg/kg wet		20.0		97	70-130		
1,2-Dibromo-3-chloropropane	**16.2**		µg/kg wet		20.0		81	70-130		
Dibromochloromethane	**19.9**		µg/kg wet		20.0		100	70-130		
1,2-Dibromoethane (EDB)	**22.7**		µg/kg wet		20.0		114	70-130		
Dibromomethane	**21.6**		µg/kg wet		20.0		108	70-130		
1,2-Dichlorobenzene	**18.1**		µg/kg wet		20.0		91	70-130		
1,3-Dichlorobenzene	**20.3**		µg/kg wet		20.0		102	70-130		
1,4-Dichlorobenzene	**17.6**		µg/kg wet		20.0		88	70-130		
Dichlorodifluoromethane (Freon12)	**18.6**		µg/kg wet		20.0		93	70-130		
1,1-Dichloroethane	**20.0**		µg/kg wet		20.0		100	70-130		
1,2-Dichloroethane	**21.0**		µg/kg wet		20.0		105	70-130		
1,1-Dichloroethene	**19.5**		µg/kg wet		20.0		97	70-130		
cis-1,2-Dichloroethene	**20.8**		µg/kg wet		20.0		104	70-130		
trans-1,2-Dichloroethene	**19.4**		µg/kg wet		20.0		97	70-130		
1,2-Dichloropropane	**20.3**		µg/kg wet		20.0		101	70-130		
1,3-Dichloropropane	**21.4**		µg/kg wet		20.0		107	70-130		
2,2-Dichloropropane	**20.0**		µg/kg wet		20.0		100	70-130		
1,1-Dichloropropene	**19.0**		µg/kg wet		20.0		95	70-130		
cis-1,3-Dichloropropene	**18.0**		µg/kg wet		20.0		90	70-130		
trans-1,3-Dichloropropene	**19.7**		µg/kg wet		20.0		98	70-130		
Ethylbenzene	**19.1**		µg/kg wet		20.0		95	70-130		
Hexachlorobutadiene	**17.4**		µg/kg wet		20.0		87	70-130		
2-Hexanone (MBK)	**16.6**		µg/kg wet		20.0		83	70-130		
Isopropylbenzene	**19.4**		µg/kg wet		20.0		97	70-130		
4-Isopropyltoluene	**17.4**		µg/kg wet		20.0		87	70-130		
Methyl tert-butyl ether	**20.2**		µg/kg wet		20.0		101	70-130		
4-Methyl-2-pentanone (MIBK)	**19.1**		µg/kg wet		20.0		95	70-130		
Methylene chloride	**19.4**		µg/kg wet		20.0		97	70-130		
Naphthalene	**15.6**		µg/kg wet		20.0		78	70-130		
n-Propylbenzene	**19.7**		µg/kg wet		20.0		98	70-130		
Styrene	**19.7**		µg/kg wet		20.0		98	70-130		
1,1,1,2-Tetrachloroethane	**21.3**		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 1328320 - SW846 5035A Soil (low level)										
LCS (1328320-BS1)					Prepared & Analyzed: 21-Nov-13					
1,1,2,2-Tetrachloroethane	**21.8**		µg/kg wet		20.0		109	70-130		
Tetrachloroethene	**21.1**		µg/kg wet		20.0		105	70-130		
Toluene	**19.8**		µg/kg wet		20.0		99	70-130		
1,2,3-Trichlorobenzene	**16.5**		µg/kg wet		20.0		82	70-130		
1,2,4-Trichlorobenzene	**15.3**		µg/kg wet		20.0		77	70-130		
1,3,5-Trichlorobenzene	**18.0**		µg/kg wet		20.0		90	70-130		
1,1,1-Trichloroethane	**21.3**		µg/kg wet		20.0		106	70-130		
1,1,2-Trichloroethane	**22.0**		µg/kg wet		20.0		110	70-130		
Trichloroethene	**20.2**		µg/kg wet		20.0		101	70-130		
Trichlorofluoromethane (Freon 11)	**21.0**		µg/kg wet		20.0		105	70-130		
1,2,3-Trichloropropane	**20.6**		µg/kg wet		20.0		103	70-130		
1,2,4-Trimethylbenzene	**20.3**		µg/kg wet		20.0		102	70-130		
1,3,5-Trimethylbenzene	**19.7**		µg/kg wet		20.0		99	70-130		
Vinyl chloride	**19.0**		µg/kg wet		20.0		95	70-130		
m,p-Xylene	**39.2**		µg/kg wet		40.0		98	70-130		
o-Xylene	**20.1**		µg/kg wet		20.0		101	70-130		
Tetrahydrofuran	**20.1**		µg/kg wet		20.0		100	70-130		
Ethyl ether	**20.7**		µg/kg wet		20.0		103	70-130		
Tert-amyl methyl ether	**20.6**		µg/kg wet		20.0		103	70-130		
Ethyl tert-butyl ether	**20.9**		µg/kg wet		20.0		105	70-130		
Di-isopropyl ether	**19.1**		µg/kg wet		20.0		96	70-130		
Tert-Butanol / butyl alcohol	**250**		µg/kg wet		200		125	70-130		
1,4-Dioxane	**188**		µg/kg wet		200		94	70-130		
trans-1,4-Dichloro-2-butene	**19.9**		µg/kg wet		20.0		99	70-130		
Ethanol	**392**		µg/kg wet		400		98	70-130		
Surrogate: 4-Bromofluorobenzene	*52.8*		µg/kg wet		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*52.3*		µg/kg wet		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.4*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*53.5*		µg/kg wet		*50.0*		*107*	*70-130*		
LCS Dup (1328320-BSD1)					Prepared & Analyzed: 21-Nov-13					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.7**		µg/kg wet		20.0		99	70-130	2	30
Acetone	**17.2**		µg/kg wet		20.0		86	70-130	14	30
Acrylonitrile	**20.0**		µg/kg wet		20.0		100	70-130	9	30
Benzene	**19.9**		µg/kg wet		20.0		99	70-130	1	30
Bromobenzene	**20.2**		µg/kg wet		20.0		101	70-130	1	30
Bromochloromethane	**21.7**		µg/kg wet		20.0		108	70-130	2	30
Bromodichloromethane	**21.3**		µg/kg wet		20.0		107	70-130	3	30
Bromoform	**18.9**		µg/kg wet		20.0		94	70-130	5	30
Bromomethane	**18.8**		µg/kg wet		20.0		94	70-130	0.6	30
2-Butanone (MEK)	**16.8**		µg/kg wet		20.0		84	70-130	11	30
n-Butylbenzene	**15.4**		µg/kg wet		20.0		77	70-130	0.6	30
sec-Butylbenzene	**19.6**		µg/kg wet		20.0		98	70-130	0.1	30
tert-Butylbenzene	**19.7**		µg/kg wet		20.0		98	70-130	0.6	30
Carbon disulfide	**19.5**		µg/kg wet		20.0		97	70-130	2	30
Carbon tetrachloride	**21.8**		µg/kg wet		20.0		109	70-130	1	30
Chlorobenzene	**19.4**		µg/kg wet		20.0		97	70-130	2	30
Chloroethane	**18.2**		µg/kg wet		20.0		91	70-130	3	30
Chloroform	**19.1**		µg/kg wet		20.0		96	70-130	3	30
Chloromethane	**17.8**		µg/kg wet		20.0		89	70-130	2	30
2-Chlorotoluene	**18.7**		µg/kg wet		20.0		94	70-130	0.6	30
4-Chlorotoluene	**19.2**		µg/kg wet		20.0		96	70-130	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328320 - SW846 5035A Soil (low level)										
LCS Dup (1328320-BSD1)					Prepared & Analyzed: 21-Nov-13					
1,2-Dibromo-3-chloropropane	**15.2**		µg/kg wet		20.0		76	70-130	6	30
Dibromochloromethane	**19.3**		µg/kg wet		20.0		97	70-130	3	30
1,2-Dibromoethane (EDB)	**21.8**		µg/kg wet		20.0		109	70-130	4	30
Dibromomethane	**21.2**		µg/kg wet		20.0		106	70-130	2	30
1,2-Dichlorobenzene	**17.7**		µg/kg wet		20.0		88	70-130	2	30
1,3-Dichlorobenzene	**20.2**		µg/kg wet		20.0		101	70-130	0.5	30
1,4-Dichlorobenzene	**17.5**		µg/kg wet		20.0		87	70-130	1	30
Dichlorodifluoromethane (Freon12)	**18.1**		µg/kg wet		20.0		90	70-130	3	30
1,1-Dichloroethane	**19.8**		µg/kg wet		20.0		99	70-130	1	30
1,2-Dichloroethane	**20.3**		µg/kg wet		20.0		101	70-130	4	30
1,1-Dichloroethene	**19.6**		µg/kg wet		20.0		98	70-130	0.6	30
cis-1,2-Dichloroethene	**20.4**		µg/kg wet		20.0		102	70-130	2	30
trans-1,2-Dichloroethene	**19.7**		µg/kg wet		20.0		98	70-130	2	30
1,2-Dichloropropane	**19.9**		µg/kg wet		20.0		100	70-130	2	30
1,3-Dichloropropane	**20.3**		µg/kg wet		20.0		102	70-130	5	30
2,2-Dichloropropane	**19.4**		µg/kg wet		20.0		97	70-130	3	30
1,1-Dichloropropene	**18.5**		µg/kg wet		20.0		93	70-130	3	30
cis-1,3-Dichloropropene	**17.7**		µg/kg wet		20.0		88	70-130	2	30
trans-1,3-Dichloropropene	**19.1**		µg/kg wet		20.0		96	70-130	3	30
Ethylbenzene	**19.0**		µg/kg wet		20.0		95	70-130	0.5	30
Hexachlorobutadiene	**17.4**		µg/kg wet		20.0		87	70-130	0.2	30
2-Hexanone (MBK)	**14.8**		µg/kg wet		20.0		74	70-130	11	30
Isopropylbenzene	**19.2**		µg/kg wet		20.0		96	70-130	1	30
4-Isopropyltoluene	**17.4**		µg/kg wet		20.0		87	70-130	0.3	30
Methyl tert-butyl ether	**19.5**		µg/kg wet		20.0		98	70-130	4	30
4-Methyl-2-pentanone (MIBK)	**16.9**		µg/kg wet		20.0		85	70-130	12	30
Methylene chloride	**18.7**		µg/kg wet		20.0		94	70-130	4	30
Naphthalene	**14.7**		µg/kg wet		20.0		73	70-130	6	30
n-Propylbenzene	**19.6**		µg/kg wet		20.0		98	70-130	0.2	30
Styrene	**19.5**		µg/kg wet		20.0		98	70-130	0.6	30
1,1,1,2-Tetrachloroethane	**21.6**		µg/kg wet		20.0		108	70-130	1	30
1,1,2,2-Tetrachloroethane	**19.8**		µg/kg wet		20.0		99	70-130	9	30
Tetrachloroethene	**20.5**		µg/kg wet		20.0		102	70-130	3	30
Toluene	**19.7**		µg/kg wet		20.0		98	70-130	0.6	30
1,2,3-Trichlorobenzene	**16.1**		µg/kg wet		20.0		81	70-130	2	30
1,2,4-Trichlorobenzene	**15.2**		µg/kg wet		20.0		76	70-130	0.7	30
1,3,5-Trichlorobenzene	**17.8**		µg/kg wet		20.0		89	70-130	0.8	30
1,1,1-Trichloroethane	**20.7**		µg/kg wet		20.0		104	70-130	3	30
1,1,2-Trichloroethane	**21.0**		µg/kg wet		20.0		105	70-130	4	30
Trichloroethene	**19.6**		µg/kg wet		20.0		98	70-130	3	30
Trichlorofluoromethane (Freon 11)	**20.6**		µg/kg wet		20.0		103	70-130	2	30
1,2,3-Trichloropropane	**19.0**		µg/kg wet		20.0		95	70-130	8	30
1,2,4-Trimethylbenzene	**20.0**		µg/kg wet		20.0		100	70-130	1	30
1,3,5-Trimethylbenzene	**19.4**		µg/kg wet		20.0		97	70-130	2	30
Vinyl chloride	**18.6**		µg/kg wet		20.0		93	70-130	2	30
m,p-Xylene	**39.3**		µg/kg wet		40.0		98	70-130	0.2	30
o-Xylene	**20.0**		µg/kg wet		20.0		100	70-130	0.8	30
Tetrahydrofuran	**17.7**		µg/kg wet		20.0		88	70-130	13	30
Ethyl ether	**19.3**		µg/kg wet		20.0		96	70-130	7	30
Tert-amyl methyl ether	**19.8**		µg/kg wet		20.0		99	70-130	4	30
Ethyl tert-butyl ether	**20.4**		µg/kg wet		20.0		102	70-130	2	30
Di-isopropyl ether	**18.8**		µg/kg wet		20.0		94	70-130	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328320 - SW846 5035A Soil (low level)										
LCS Dup (1328320-BSD1)					Prepared & Analyzed: 21-Nov-13					
Tert-Butanol / butyl alcohol	**221**		µg/kg wet		200		110	70-130	12	30
1,4-Dioxane	**172**		µg/kg wet		200		86	70-130	9	30
trans-1,4-Dichloro-2-butene	**18.4**		µg/kg wet		20.0		92	70-130	8	30
Ethanol	**361**		µg/kg wet		400		90	70-130	8	30
Surrogate: 4-Bromofluorobenzene	*53.4*		µg/kg wet		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*52.2*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.7*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*52.8*		µg/kg wet		*50.0*		*106*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328090 - SW846 3510C										
Blank (1328090-BLK1)					Prepared: 19-Nov-13 Analyzed: 25-Nov-13					
Acenaphthene	< 0.900	U	µg/l	0.900						
Acenaphthylene	< 0.870	U	µg/l	0.870						
Anthracene	< 0.900	U	µg/l	0.900						
Benzo (a) anthracene	< 1.19	U	µg/l	1.19						
Benzo (a) pyrene	< 0.870	U	µg/l	0.870						
Benzo (b) fluoranthene	< 0.850	U	µg/l	0.850						
Benzo (g,h,i) perylene	< 0.900	U	µg/l	0.900						
Benzo (k) fluoranthene	< 1.11	U	µg/l	1.11						
Chrysene	< 1.14	U	µg/l	1.14						
Dibenzo (a,h) anthracene	< 0.930	U	µg/l	0.930						
Fluoranthene	< 0.960	U	µg/l	0.960						
Fluorene	< 0.900	U	µg/l	0.900						
Indeno (1,2,3-cd) pyrene	< 0.920	U	µg/l	0.920						
1-Methylnaphthalene	< 0.930	U	µg/l	0.930						
2-Methylnaphthalene	< 0.910	U	µg/l	0.910						
Naphthalene	< 0.890	U	µg/l	0.890						
Phenanthrene	< 0.870	U	µg/l	0.870						
Pyrene	< 1.28	U	µg/l	1.28						
Surrogate: 2-Fluorobiphenyl	*44.7*		µg/l		*50.0*		*89*	*30-130*		
Surrogate: Terphenyl-dl4	*63.1*		µg/l		*50.0*		*126*	*30-130*		
LCS (1328090-BS1)					Prepared: 19-Nov-13 Analyzed: 25-Nov-13					
Acenaphthene	**43.9**		µg/l	0.900	50.0		88	40-140		
Acenaphthylene	**42.1**		µg/l	0.870	50.0		84	40-140		
Anthracene	**47.2**		µg/l	0.900	50.0		94	40-140		
Benzo (a) anthracene	**47.7**		µg/l	1.19	50.0		95	40-140		
Benzo (a) pyrene	**46.8**		µg/l	0.870	50.0		94	40-140		
Benzo (b) fluoranthene	**43.8**		µg/l	0.850	50.0		88	40-140		
Benzo (g,h,i) perylene	**45.7**		µg/l	0.900	50.0		91	40-140		
Benzo (k) fluoranthene	**47.9**		µg/l	1.11	50.0		96	40-140		
Chrysene	**46.2**		µg/l	1.14	50.0		92	40-140		
Dibenzo (a,h) anthracene	**46.5**		µg/l	0.930	50.0		93	40-140		
Fluoranthene	**47.6**		µg/l	0.960	50.0		95	40-140		
Fluorene	**44.9**		µg/l	0.900	50.0		90	40-140		
Indeno (1,2,3-cd) pyrene	**47.1**		µg/l	0.920	50.0		94	40-140		
1-Methylnaphthalene	**43.1**		µg/l	0.930	50.0		86	40-140		
2-Methylnaphthalene	**45.4**		µg/l	0.910	50.0		91	40-140		
Naphthalene	**37.8**		µg/l	0.890	50.0		76	40-140		
Phenanthrene	**44.3**		µg/l	0.870	50.0		89	40-140		
Pyrene	**49.0**		µg/l	1.28	50.0		98	40-140		
Surrogate: 2-Fluorobiphenyl	*47.2*		µg/l		*50.0*		*94*	*30-130*		
Surrogate: Terphenyl-dl4	*51.1*		µg/l		*50.0*		*102*	*30-130*		
LCS Dup (1328090-BSD1)					Prepared: 19-Nov-13 Analyzed: 25-Nov-13					
Acenaphthene	**40.3**		µg/l	0.900	50.0		81	40-140	8	20
Acenaphthylene	**41.8**		µg/l	0.870	50.0		84	40-140	0.6	20
Anthracene	**45.4**		µg/l	0.900	50.0		91	40-140	4	20
Benzo (a) anthracene	**43.8**		µg/l	1.19	50.0		88	40-140	9	20
Benzo (a) pyrene	**44.3**		µg/l	0.870	50.0		89	40-140	6	20
Benzo (b) fluoranthene	**41.1**		µg/l	0.850	50.0		82	40-140	6	20
Benzo (g,h,i) perylene	**42.6**		µg/l	0.900	50.0		85	40-140	7	20
Benzo (k) fluoranthene	**43.5**		µg/l	1.11	50.0		87	40-140	10	20
Chrysene	**42.0**		µg/l	1.14	50.0		84	40-140	10	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328090 - SW846 3510C										
LCS Dup (1328090-BSD1)					Prepared: 19-Nov-13		Analyzed: 25-Nov-13			
Dibenzo (a,h) anthracene	**43.2**		µg/l	0.930	50.0		86	40-140	7	20
Fluoranthene	**45.9**		µg/l	0.960	50.0		92	40-140	4	20
Fluorene	**43.0**		µg/l	0.900	50.0		86	40-140	5	20
Indeno (1,2,3-cd) pyrene	**45.0**		µg/l	0.920	50.0		90	40-140	4	20
1-Methylnaphthalene	**40.9**		µg/l	0.930	50.0		82	40-140	5	20
2-Methylnaphthalene	**41.8**		µg/l	0.910	50.0		84	40-140	8	20
Naphthalene	**36.5**		µg/l	0.890	50.0		73	40-140	4	20
Phenanthrene	**42.2**		µg/l	0.870	50.0		84	40-140	5	20
Pyrene	**45.4**		µg/l	1.28	50.0		91	40-140	7	20
Surrogate: 2-Fluorobiphenyl	*46.7*		µg/l		*50.0*		*93*	*30-130*		
Surrogate: Terphenyl-dl4	*50.2*		µg/l		*50.0*		*100*	*30-130*		
Batch 1328259 - SW846 3545A										
Blank (1328259-BLK1)					Prepared: 20-Nov-13		Analyzed: 21-Nov-13			
Acenaphthene	< 42.0	U	µg/kg wet	42.0						
Acenaphthylene	< 45.8	U	µg/kg wet	45.8						
Anthracene	< 42.2	U	µg/kg wet	42.2						
Benzo (a) anthracene	< 44.3	U	µg/kg wet	44.3						
Benzo (a) pyrene	< 45.0	U	µg/kg wet	45.0						
Benzo (b) fluoranthene	< 35.9	U	µg/kg wet	35.9						
Benzo (g,h,i) perylene	< 46.0	U	µg/kg wet	46.0						
Benzo (k) fluoranthene	< 58.6	U	µg/kg wet	58.6						
Chrysene	< 46.7	U	µg/kg wet	46.7						
Dibenzo (a,h) anthracene	< 42.7	U	µg/kg wet	42.7						
Fluoranthene	< 46.2	U	µg/kg wet	46.2						
Fluorene	< 46.0	U	µg/kg wet	46.0						
Indeno (1,2,3-cd) pyrene	< 45.8	U	µg/kg wet	45.8						
1-Methylnaphthalene	< 48.8	U	µg/kg wet	48.8						
2-Methylnaphthalene	< 47.2	U	µg/kg wet	47.2						
Naphthalene	< 46.2	U	µg/kg wet	46.2						
Phenanthrene	< 44.1	U	µg/kg wet	44.1						
Pyrene	< 40.0	U	µg/kg wet	40.0						
Surrogate: 2-Fluorobiphenyl	*1240*		µg/kg wet		*1650*		*75*	*30-130*		
Surrogate: Terphenyl-dl4	*1040*		µg/kg wet		*1650*		*63*	*30-130*		
LCS (1328259-BS1)					Prepared: 20-Nov-13		Analyzed: 21-Nov-13			
Acenaphthene	**1170**		µg/kg wet	42.2	1660		70	40-140		
Acenaphthylene	**1180**		µg/kg wet	46.0	1660		71	40-140		
Anthracene	**1400**		µg/kg wet	42.3	1660		84	40-140		
Benzo (a) anthracene	**1130**		µg/kg wet	44.5	1660		68	40-140		
Benzo (a) pyrene	**1350**		µg/kg wet	45.2	1660		81	40-140		
Benzo (b) fluoranthene	**1330**		µg/kg wet	36.1	1660		80	40-140		
Benzo (g,h,i) perylene	**1200**		µg/kg wet	46.2	1660		72	40-140		
Benzo (k) fluoranthene	**1490**		µg/kg wet	58.8	1660		90	40-140		
Chrysene	**1110**		µg/kg wet	46.9	1660		67	40-140		
Dibenzo (a,h) anthracene	**2020**		µg/kg wet	42.9	1660		122	40-140		
Fluoranthene	**1480**		µg/kg wet	46.4	1660		89	40-140		
Fluorene	**1210**		µg/kg wet	46.2	1660		73	40-140		
Indeno (1,2,3-cd) pyrene	**1910**		µg/kg wet	46.0	1660		115	40-140		
1-Methylnaphthalene	**1160**		µg/kg wet	49.0	1660		70	40-140		
2-Methylnaphthalene	**1290**		µg/kg wet	47.4	1660		78	40-140		
Naphthalene	**1190**		µg/kg wet	46.4	1660		72	40-140		
Phenanthrene	**1390**		µg/kg wet	44.3	1660		84	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328259 - SW846 3545A										
LCS (1328259-BS1)					Prepared: 20-Nov-13	Analyzed: 21-Nov-13				
Pyrene	**1100**		µg/kg wet	40.1	1660		66	40-140		
Surrogate: 2-Fluorobiphenyl	*1400*		µg/kg wet		*1660*		*84*	*30-130*		
Surrogate: Terphenyl-dl4	*1110*		µg/kg wet		*1660*		*67*	*30-130*		
Duplicate (1328259-DUP1)			**Source: SB80494-03**		Prepared: 20-Nov-13	Analyzed: 21-Nov-13				
Acenaphthene	< 45.8	U	µg/kg dry	45.8		BRL				30
Acenaphthylene	< 50.0	U	µg/kg dry	50.0		BRL				30
Anthracene	< 46.0	U	µg/kg dry	46.0		BRL				30
Benzo (a) anthracene	< 48.3	U	µg/kg dry	48.3		BRL				30
Benzo (a) pyrene	< 49.1	U	µg/kg dry	49.1		BRL				30
Benzo (b) fluoranthene	< 39.2	U	µg/kg dry	39.2		BRL				30
Benzo (g,h,i) perylene	< 50.2	U	µg/kg dry	50.2		BRL				30
Benzo (k) fluoranthene	< 63.9	U	µg/kg dry	63.9		BRL				30
Chrysene	< 50.9	U	µg/kg dry	50.9		BRL				30
Dibenzo (a,h) anthracene	< 46.6	U	µg/kg dry	46.6		BRL				30
Fluoranthene	< 50.4	U	µg/kg dry	50.4		BRL				30
Fluorene	< 50.1	U	µg/kg dry	50.1		BRL				30
Indeno (1,2,3-cd) pyrene	< 50.0	U	µg/kg dry	50.0		BRL				30
1-Methylnaphthalene	< 53.2	U	µg/kg dry	53.2		BRL				30
2-Methylnaphthalene	< 51.5	U	µg/kg dry	51.5		BRL				30
Naphthalene	< 50.3	U	µg/kg dry	50.3		BRL				30
Phenanthrene	< 48.1	U	µg/kg dry	48.1		BRL				30
Pyrene	< 43.6	U	µg/kg dry	43.6		BRL				30
Surrogate: 2-Fluorobiphenyl	*1560*		µg/kg dry		*1800*		*87*	*30-130*		
Surrogate: Terphenyl-dl4	*1710*		µg/kg dry		*1800*		*95*	*30-130*		
Matrix Spike (1328259-MS1)			**Source: SB80494-03**		Prepared: 20-Nov-13	Analyzed: 21-Nov-13				
Acenaphthene	**1850**		µg/kg dry	45.7	1800	BRL	103	40-140		
Acenaphthylene	**1760**		µg/kg dry	49.9	1800	BRL	98	40-140		
Anthracene	**1680**		µg/kg dry	45.8	1800	BRL	93	40-140		
Benzo (a) anthracene	**1790**		µg/kg dry	48.1	1800	BRL	100	40-140		
Benzo (a) pyrene	**1820**		µg/kg dry	49.0	1800	BRL	101	40-140		
Benzo (b) fluoranthene	**1850**		µg/kg dry	39.1	1800	BRL	103	40-140		
Benzo (g,h,i) perylene	**1720**		µg/kg dry	50.0	1800	BRL	96	40-140		
Benzo (k) fluoranthene	**1840**		µg/kg dry	63.7	1800	BRL	102	40-140		
Chrysene	**1950**		µg/kg dry	50.8	1800	BRL	109	40-140		
Dibenzo (a,h) anthracene	**1820**		µg/kg dry	46.5	1800	BRL	101	40-140		
Fluoranthene	**1750**		µg/kg dry	50.3	1800	BRL	97	40-140		
Fluorene	**1870**		µg/kg dry	50.0	1800	BRL	104	40-140		
Indeno (1,2,3-cd) pyrene	**1790**		µg/kg dry	49.9	1800	BRL	100	40-140		
1-Methylnaphthalene	**1400**		µg/kg dry	53.1	1800	BRL	78	40-140		
2-Methylnaphthalene	**2560**	QM7	µg/kg dry	51.3	1800	BRL	142	40-140		
Naphthalene	**1680**		µg/kg dry	50.2	1800	BRL	93	40-140		
Phenanthrene	**1820**		µg/kg dry	48.0	1800	BRL	101	40-140		
Pyrene	**1890**		µg/kg dry	43.5	1800	BRL	105	40-140		
Surrogate: 2-Fluorobiphenyl	*1810*		µg/kg dry		*1800*		*101*	*30-130*		
Surrogate: Terphenyl-dl4	*1780*		µg/kg dry		*1800*		*99*	*30-130*		
Matrix Spike Dup (1328259-MSD1)			**Source: SB80494-03**		Prepared: 20-Nov-13	Analyzed: 21-Nov-13				
Acenaphthene	**1640**		µg/kg dry	45.8	1800	BRL	91	40-140	12	30
Acenaphthylene	**1550**		µg/kg dry	49.9	1800	BRL	86	40-140	13	30
Anthracene	**1530**		µg/kg dry	45.9	1800	BRL	85	40-140	9	30
Benzo (a) anthracene	**1610**		µg/kg dry	48.2	1800	BRL	90	40-140	11	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328259 - SW846 3545A										
Matrix Spike Dup (1328259-MSD1)			**Source: SB80494-03**		Prepared: 20-Nov-13	Analyzed: 21-Nov-13				
Benzo (a) pyrene	**1600**		µg/kg dry	49.1	1800	BRL	89	40-140	13	30
Benzo (b) fluoranthene	**1500**		µg/kg dry	39.1	1800	BRL	83	40-140	21	30
Benzo (g,h,i) perylene	**1450**		µg/kg dry	50.1	1800	BRL	81	40-140	17	30
Benzo (k) fluoranthene	**1590**		µg/kg dry	63.8	1800	BRL	88	40-140	14	30
Chrysene	**1740**		µg/kg dry	50.9	1800	BRL	97	40-140	12	30
Dibenzo (a,h) anthracene	**1590**		µg/kg dry	46.5	1800	BRL	88	40-140	14	30
Fluoranthene	**1620**		µg/kg dry	50.4	1800	BRL	90	40-140	8	30
Fluorene	**1650**		µg/kg dry	50.1	1800	BRL	92	40-140	13	30
Indeno (1,2,3-cd) pyrene	**1560**		µg/kg dry	50.0	1800	BRL	86	40-140	14	30
1-Methylnaphthalene	**1240**		µg/kg dry	53.2	1800	BRL	69	40-140	13	30
2-Methylnaphthalene	**2130**		µg/kg dry	51.4	1800	BRL	118	40-140	18	30
Naphthalene	**1520**		µg/kg dry	50.3	1800	BRL	84	40-140	10	30
Phenanthrene	**1600**		µg/kg dry	48.1	1800	BRL	89	40-140	13	30
Pyrene	**1750**		µg/kg dry	43.6	1800	BRL	97	40-140	8	30
Surrogate: 2-Fluorobiphenyl	*1520*		µg/kg dry		*1800*		*84*	*30-130*		
Surrogate: Terphenyl-dl4	*1610*		µg/kg dry		*1800*		*90*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328335 - SW846 3050B										
Blank (1328335-BLK1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Silver	< 0.384	U	mg/kg wet	0.384						
Arsenic	< 0.581	U	mg/kg wet	0.581						
Chromium	< 0.192	U	mg/kg wet	0.192						
Lead	< 0.491	U	mg/kg wet	0.491						
Selenium	< 0.382	U	mg/kg wet	0.382						
Cadmium	< 0.131	U	mg/kg wet	0.131						
Barium	< 0.286	U	mg/kg wet	0.286						
Reference (1328335-SRM1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Selenium	**58.2**		mg/kg wet	0.430	65.7		88	77.48-122.83		
Silver	**30.3**		mg/kg wet	0.432	34.3		88	74.92-125.07		
Arsenic	**40.5**		mg/kg wet	0.654	45.8		89	80.88-118.77		
Chromium	**41.4**		mg/kg wet	0.216	44.9		92	79.72-119.82		
Lead	**45.4**		mg/kg wet	0.553	50.7		89	81.71-118.48		
Cadmium	**65.6**		mg/kg wet	0.147	73.5		89	81.69-119.01		
Barium	**97.3**		mg/kg wet	0.322	109		89	83.81-116.66		
Reference (1328335-SRM2)						Prepared: 21-Nov-13	Analyzed: 25-Nov-13			
Cadmium	**70.3**		mg/kg wet	0.147	71.2		99	81.69-119.01		
Selenium	**64.8**		mg/kg wet	0.430	63.7		102	77.48-122.83		
Lead	**49.9**		mg/kg wet	0.553	49.1		102	81.71-118.48		
Chromium	**44.1**		mg/kg wet	0.216	43.5		101	79.72-119.82		
Silver	**32.6**		mg/kg wet	0.432	33.2		98	74.92-125.07		
Arsenic	**43.8**		mg/kg wet	0.654	44.3		99	80.88-118.77		
Barium	**103**		mg/kg wet	0.322	105		98	83.81-116.66		
Batch 1328337 - EPA200/SW7000 Series										
Blank (1328337-BLK1)						Prepared: 22-Nov-13	Analyzed: 25-Nov-13			
Mercury	< 0.0015	U	mg/kg wet	0.0015						
Duplicate (1328337-DUP1)			**Source: SB80494-01**			Prepared: 22-Nov-13	Analyzed: 25-Nov-13			
Mercury	**0.0270**	J	mg/kg dry	0.0015		0.0260			4	20
Matrix Spike (1328337-MS1)			**Source: SB80494-01**			Prepared: 22-Nov-13	Analyzed: 25-Nov-13			
Mercury	**0.267**		mg/kg dry	0.0016	0.220	0.0260	110	75-125		
Matrix Spike Dup (1328337-MSD1)			**Source: SB80494-01**			Prepared: 22-Nov-13	Analyzed: 25-Nov-13			
Mercury	**0.239**		mg/kg dry	0.0015	0.204	0.0260	104	75-125	11	20
Post Spike (1328337-PS1)			**Source: SB80494-01**			Prepared: 22-Nov-13	Analyzed: 25-Nov-13			
Mercury	**0.237**		mg/kg dry	0.0015	0.202	0.0260	105	80-120		
Reference (1328337-SRM1)						Prepared: 22-Nov-13	Analyzed: 25-Nov-13			
Mercury	**3.15**	D	mg/kg wet	0.0308	3.02		104	71.42-128.46		
Batch 1328346 - SW846 3005A										
Blank (1328346-BLK1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Barium	< 0.0014	U	mg/l	0.0014						

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 1328346 - SW846 3005A										
Blank (1328346-BLK1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Arsenic	< 0.0036	U	mg/l	0.0036						
Lead	< 0.0040	U	mg/l	0.0040						
Chromium	**0.0035**	J	mg/l	0.0019						
Selenium	< 0.0060	U	mg/l	0.0060						
Silver	< 0.0017	U	mg/l	0.0017						
Cadmium	< 0.0016	U	mg/l	0.0016						
LCS (1328346-BS1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Arsenic	**2.48**		mg/l	0.0036	2.50		99	85-115		
Chromium	**2.65**		mg/l	0.0019	2.50		106	85-115		
Lead	**2.30**		mg/l	0.0040	2.50		92	85-115		
Cadmium	**2.39**		mg/l	0.0016	2.50		95	85-115		
Barium	**2.39**		mg/l	0.0014	2.50		96	85-115		
Silver	**2.54**		mg/l	0.0017	2.50		102	85-115		
Selenium	**2.52**		mg/l	0.0060	2.50		101	85-115		
LCS Dup (1328346-BSD1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Silver	**2.71**		mg/l	0.0017	2.50		108	85-115	6	20
Selenium	**2.48**		mg/l	0.0060	2.50		99	85-115	2	20
Lead	**2.32**		mg/l	0.0040	2.50		93	85-115	1	20
Chromium	**2.74**		mg/l	0.0019	2.50		109	85-115	3	20
Cadmium	**2.41**		mg/l	0.0016	2.50		96	85-115	0.8	20
Arsenic	**2.52**		mg/l	0.0036	2.50		101	85-115	1	20
Barium	**2.52**		mg/l	0.0014	2.50		101	85-115	5	20
Duplicate (1328346-DUP1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Lead	**2.23**		mg/l	0.0040		2.26			1	20
Selenium	**0.0086**	J	mg/l	0.0060		BRL				20
Arsenic	**0.0743**		mg/l	0.0036		0.0818			10	20
Silver	< 0.0017	R01, U	mg/l	0.0017		BRL				20
Barium	**0.660**		mg/l	0.0014		0.695			5	20
Cadmium	< 0.0016	R01, U	mg/l	0.0016		BRL				20
Chromium	**0.395**		mg/l	0.0019		0.420			6	20
Matrix Spike (1328346-MS1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Selenium	**1.80**	QM8	mg/l	0.0060	2.50	BRL	72	75-125		
Barium	**2.67**		mg/l	0.0014	2.50	0.695	79	75-125		
Silver	**2.06**		mg/l	0.0017	2.50	BRL	82	75-125		
Lead	**3.90**	QM8	mg/l	0.0040	2.50	2.26	66	75-125		
Chromium	**2.41**		mg/l	0.0019	2.50	0.420	80	75-125		
Arsenic	**1.91**	QM8	mg/l	0.0036	2.50	0.0818	73	75-125		
Cadmium	**1.69**	QM8	mg/l	0.0016	2.50	BRL	68	75-125		
Matrix Spike Dup (1328346-MSD1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Selenium	**1.84**	QM8	mg/l	0.0060	2.50	BRL	74	75-125	2	20
Cadmium	**1.69**	QM8	mg/l	0.0016	2.50	BRL	68	75-125	0.1	20
Lead	**3.87**	QM8	mg/l	0.0040	2.50	2.26	64	75-125	0.9	20
Chromium	**2.33**		mg/l	0.0019	2.50	0.420	76	75-125	3	20
Silver	**1.92**		mg/l	0.0017	2.50	BRL	77	75-125	7	20
Barium	**2.54**	QM8	mg/l	0.0014	2.50	0.695	74	75-125	5	20
Arsenic	**1.91**	QM8	mg/l	0.0036	2.50	0.0818	73	75-125	0.2	20
Post Spike (1328346-PS1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Silver	**2.40**		mg/l	0.0017	2.50	BRL	96	80-120		
Arsenic	**2.30**		mg/l	0.0036	2.50	0.0818	89	80-120		
Barium	**2.85**		mg/l	0.0014	2.50	0.695	86	80-120		
Cadmium	**2.06**		mg/l	0.0016	2.50	BRL	82	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1328346 - SW846 3005A										
Post Spike (1328346-PS1)			**Source: SB80494-07**		Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Chromium	**2.73**		mg/l	0.0019	2.50	0.420	92	80-120		
Lead	**4.28**		mg/l	0.0040	2.50	2.26	81	80-120		
Selenium	**2.21**		mg/l	0.0060	2.50	BRL	88	80-120		

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 1328348 - EPA200/SW7000 Series										
Blank (1328348-BLK1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	< 0.00008	U	mg/l	0.00008						
LCS (1328348-BS1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00510**		mg/l	0.00008	0.00500		102	85-115		
Duplicate (1328348-DUP1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00044**	QR6	mg/l	0.00008		0.00031			34	20
Matrix Spike (1328348-MS1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00598**		mg/l	0.00008	0.00500	0.00031	113	80-120		
Matrix Spike Dup (1328348-MSD1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00600**		mg/l	0.00008	0.00500	0.00031	114	80-120	0.3	20
Post Spike (1328348-PS1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00606**		mg/l	0.00008	0.00500	0.00031	115	85-115		

Soluble 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 1328374 - SW846 3005A										
Blank (1328374-BLK1)					Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Selenium	< 0.0060	U	mg/l	0.0060						
Lead	< 0.0040	U	mg/l	0.0040						
Chromium	< 0.0019	U	mg/l	0.0019						
Cadmium	< 0.0016	U	mg/l	0.0016						
Barium	< 0.0014	U	mg/l	0.0014						
Arsenic	< 0.0036	U	mg/l	0.0036						
Silver	< 0.0017	U	mg/l	0.0017						
LCS (1328374-BS1)					Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Lead	**2.38**		mg/l	0.0040	2.50		95	85-115		
Chromium	**2.78**		mg/l	0.0019	2.50		111	85-115		
Cadmium	**2.45**		mg/l	0.0016	2.50		98	85-115		
Barium	**2.60**		mg/l	0.0014	2.50		104	85-115		
Silver	**2.74**		mg/l	0.0017	2.50		110	85-115		
Selenium	**2.47**		mg/l	0.0060	2.50		99	85-115		
Arsenic	**2.54**		mg/l	0.0036	2.50		102	85-115		
LCS Dup (1328374-BSD1)					Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Selenium	**2.47**		mg/l	0.0060	2.50		99	85-115	0.2	20
Lead	**2.32**		mg/l	0.0040	2.50		93	85-115	3	20
Chromium	**2.71**		mg/l	0.0019	2.50		108	85-115	3	20
Cadmium	**2.40**		mg/l	0.0016	2.50		96	85-115	2	20
Barium	**2.47**		mg/l	0.0014	2.50		99	85-115	5	20
Silver	**2.61**		mg/l	0.0017	2.50		104	85-115	5	20
Arsenic	**2.49**		mg/l	0.0036	2.50		100	85-115	2	20
Duplicate (1328374-DUP1)			**Source: SB80494-07**		Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Selenium	< 0.0060	U	mg/l	0.0060		BRL				20
Lead	< 0.0040	U	mg/l	0.0040		BRL				20
Chromium	< 0.0019	U	mg/l	0.0019		0.0019				20
Cadmium	< 0.0016	U	mg/l	0.0016		BRL				20
Barium	**0.0118**		mg/l	0.0014		0.0118			0	20
Arsenic	< 0.0036	U	mg/l	0.0036		BRL				20
Silver	< 0.0017	U	mg/l	0.0017		BRL				20
Matrix Spike (1328374-MS1)			**Source: SB80494-07**		Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Lead	**2.13**		mg/l	0.0040	2.50	BRL	85	75-125		
Selenium	**2.29**		mg/l	0.0060	2.50	BRL	92	75-125		
Silver	**2.62**		mg/l	0.0017	2.50	BRL	105	75-125		
Arsenic	**2.31**		mg/l	0.0036	2.50	BRL	93	75-125		
Barium	**2.48**		mg/l	0.0014	2.50	0.0118	99	75-125		
Cadmium	**2.19**		mg/l	0.0016	2.50	BRL	88	75-125		
Chromium	**2.70**		mg/l	0.0019	2.50	0.0019	108	75-125		
Matrix Spike Dup (1328374-MSD1)			**Source: SB80494-07**		Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Silver	**2.68**		mg/l	0.0017	2.50	BRL	107	75-125	2	20
Arsenic	**2.53**		mg/l	0.0036	2.50	BRL	101	75-125	9	20
Barium	**2.57**		mg/l	0.0014	2.50	0.0118	102	75-125	4	20
Cadmium	**2.36**		mg/l	0.0016	2.50	BRL	94	75-125	7	20
Lead	**2.33**		mg/l	0.0040	2.50	BRL	93	75-125	9	20
Selenium	**2.46**		mg/l	0.0060	2.50	BRL	98	75-125	7	20
Chromium	**2.68**		mg/l	0.0019	2.50	0.0019	107	75-125	0.6	20
Post Spike (1328374-PS1)			**Source: SB80494-07**		Prepared: 21-Nov-13	Analyzed: 22-Nov-13				
Cadmium	**2.41**		mg/l	0.0016	2.50	BRL	96	80-120		
Chromium	**2.70**		mg/l	0.0019	2.50	0.0019	108	80-120		
Barium	**2.47**		mg/l	0.0014	2.50	0.0118	98	80-120		

Soluble 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 1328374 - SW846 3005A										
Post Spike (1328374-PS1)			**Source: SB80494-07**		Prepared: 21-Nov-13 Analyzed: 22-Nov-13					
Arsenic	**2.55**		mg/l	0.0036	2.50	BRL	102	80-120		
Silver	**2.60**		mg/l	0.0017	2.50	BRL	104	80-120		
Selenium	**2.54**		mg/l	0.0060	2.50	BRL	102	80-120		
Lead	**2.34**		mg/l	0.0040	2.50	BRL	94	80-120		

Soluble 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 1328375 - EPA200/SW7000 Series										
Blank (1328375-BLK1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	< 0.00008	U	mg/l	0.00008						
LCS (1328375-BS1)						Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00493**		mg/l	0.00008	0.00500		99	85-115		
Duplicate (1328375-DUP1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	< 0.00008	R01, U	mg/l	0.00008		BRL				20
Matrix Spike (1328375-MS1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00512**		mg/l	0.00008	0.00500	BRL	102	80-120		
Matrix Spike Dup (1328375-MSD1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00505**		mg/l	0.00008	0.00500	BRL	101	80-120	1	20
Post Spike (1328375-PS1)			**Source: SB80494-07**			Prepared: 21-Nov-13	Analyzed: 22-Nov-13			
Mercury	**0.00486**		mg/l	0.00008	0.00500	BRL	97	85-115		

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.
HT2	This sample was received outside the EPA recommended holding time for the analysis specified.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
JL	Estimated Concentration is potentially biased low (per NYSDEC).
O01	This compound is a common laboratory contaminant.
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.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
R01	The Reporting Limit has been raised to account for matrix interference.
U	Analyte included in the analysis, but not detected at or above the MDL.
UJL	Non-detect is potentially biased low (per NYSDEC).
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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
Nicole Leja
Rebecca Merz

SB 804994

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

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Clifton Park, NY
Telephone #: 518 877 7101
Project Mgr.

Invoice To: Same

P.O. No.: RQN: 5334

Project No.: ~~Beacon~~ NEW7426.P2
Site Name: Beacon
Location: Beacon, NY State:
Sampler(s): Michigan

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= 12=

List preservative code below:

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									
						Containers:					Analyses:							
											VOCs 8260	SVOCs 8270	RCRA Metals	RCRA Metals Dissolved				
804994-01	SB-3(6-7)	11/14/13	1015	SO			2				X	X	X	X				
-02	SB-4(3-4)	11/14/13	1030	SO			2				X	X	X					
-03	SB-6(4-5)	11/14/13	1100	SO			2				X	X	X					
-04	SB-8(4-4.5)	11/14/13	1110	SO			2				X	X	X					
-05	SB-10(1-1.5)	11/14/13	1130	SO			2				X	X	X					
-06	SB-12(1.5-3)	11/14/13	1140	SO			2				X	X	X					
-07	SB-12	11/14/13	1145	GW		3	1		2		X	X	X	X				Lab to filter dissolved Metals
-08	SB-13(8-10)	11/14/13	1200	SO			2				X	X	X					
-09	SB-16(8-9)	11/14/13	1250	SO			2				X	X	X					
-10	SB-17(5-6)	11/14/13	1310	SO			2				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:

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]		11/15/13	1600	
[signature]	[signature]	11/16/13	10:00	

☒ EDD Format HRP
☐ E-mail to

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

60-1-150 IR 01

SB 80494

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 2

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

Report To: See Page

Telephone #:

Project Mgr.

Invoice To:

P.O. No.: RQN:

Project No.: NEW 7426.P2

Site Name: Beacon

Location: Beacon State: NY

Sampler(s): MWrgn

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= 12=

List preservative code below:

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O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
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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		VOCs 8260	SVOCs 8270	8 RCRA Metal	8 free					
80494 11	SB-20(8-9)	11/14/13	1345	SO			2				X	X	X						
12	SB-21(9-10)	11/14/13	1415	SO			2				X	X	X						
13	SB-22(0-3)	11/14/13	1420	SO			2				X	X	X						
14	SB-23(10-10.5)	11/14/13	1430	SO			2				X	X	X						

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]		11/15/13	1600	
[signature]	[signature]	11/16/13	10:00	

☐ EDD Format
☐ E-mail to

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

6.0/-1/5.0 IR-01

From: (518) 877-7101
Mark Wright
HRP ASSOCIATES INC
1 FAIRCHILD SQ STE 110

CLIFTON PARK, NY 12065

Origin ID: DSVA

FedEx Express

J13201306280326

Ship Date: 15NOV13
ActWgt: 50.0 LB
CAD: 8738270/INET3430

Dims: 21 X 9 X 15 IN

Delivery Address Bar Code

Ref # new7426.p2
Invoice #
PO #
Dept #

SHIP TO: (413) 789-9018

BILL SENDER

Spectrum Analytical
Spectrum Analytical
11 ALMGREN DR

AGAWAM, MA 01001

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7971 7251 1851

X0 EHTA

01001
MA-US
BDL

51AG1/D5E6/1A9E

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ATTACHMENT #4

HRP'S GENERAL LIMITATIONS

LIMITATIONS ON WORK PRODUCT

All work product and reports provided by HRP in connection with the performance of any phase of Environmental Site Assessments, and any services related to remedial and post-remedial action, including all work performed under HRP's Terms & Conditions and any follow-up work is subject to the following limitations.

A. The observations described in the Project Report(s) are made under the stated conditions. The conclusions presented in the Report(s) are based solely upon the indicated services, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.

B. In preparing Project Reports, HRP relies on certain representations made and in-formation provided by federal, state and local officials, the Client and other parties referenced in the Project Reports, and on information contained in the files of federal, state and/or local agencies made available to HRP, at the time of the Project. To the extent that such information and files are missing, incomplete or not provided to HRP, HRP is not responsible. Although there may be some degree of overlap in the information provided by these various sources, HRP does not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of the Project. If the Client determines that information provided or made available to HRP from any source is incorrect or inaccurate, the Client should promptly notify HRP, whereupon HRP will issue a corrected Project Report.

C. Observations are made of the site and of structures on the site as indicated within the Project Report(s). Where access to portions of the site or to structures on the site is unavailable or limited, HRP renders no opinion as to the presence of potential contamination by hazardous substances, wastes or petroleum and chemical products and wastes. In addition, HRP renders no opinion as to the presence of indirect evidence relating to potential contamination by hazardous substances, wastes or petroleum and chemical products or wastes where direct observation of the interior walls, floors, or ceilings of a structure on a site is obstructed by objects or coverings on or over these surfaces.

D. Unless otherwise specified in the Project Report(s), HRP does not perform testing or analyses to determine the presence or concentration of asbestos or poly-chlorinated biphenyls (PCBs), lead paint, urea formaldehyde foam insulation (UFFI), wetlands, regulatory compliance, cultural and historical risks, industrial hygiene, health & safety, ecological resources, endangered species, indoor air quality, high voltage power lines, or radon at the site or in the environment of the site. When HRP is contracted to perform asbestos or lead paint testing, planning or related services, HRP assumes no responsibility for the implementation or enforcement of the procedures, work practices, or other control methods recommended, required, or mentioned in the Project Report(s), unless HRP has been specifically contracted to implement or supervise such actions, in which case the associated contractual documents will define our scope and responsibilities.

E. The purpose of the Project Report(s) is to assess the physical characteristics of the subject site with respect to the potential presence in the site soil, ground water or surface water environment of contamination by hazardous substances, hazardous waste or petroleum and chemical products and wastes. HRP has not confirmed the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.

F. If sampling is included in the scope of the Project, the conclusions and recommendations contained in the Project Report(s) are based in part upon the data obtained from a limited number of soil, ground water, or surface water samples obtained from widely spaced surface or subsurface explorations. The nature and extent of variations between these locations may not become evident until further exploration. If variations or other latent conditions then appear evident, it will be necessary to re-evaluate the conclusions and recommendations of the Project Report(s).

G. If water level readings are made in test pits, borings, and/or observation wells; these observations are made at the times and under the conditions stated on the test pit or boring logs or in the Project Report(s). However, it must be noted that fluctuations in the level of ground water may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data may alter the basis of conclusions and recommendations presented in the Project Report(s).

H. If the conclusions and recommendations contained in the Project Report(s) are based, in part, upon various types of chemical analyses, then the conclusions and recommendations are contingent upon the validity of such data. The analyses are performed for specific parameters and additional chemical constituents not searched for during the current study may be present in soil, ground water, or surface water at the site. Where such analyses have been conducted by an out-side laboratory, HRP has relied upon the data provided, and has not conducted an independent evaluation of the reliability of these tests. The data (if obtained) are reviewed and interpretations made in the Project Report(s). If indicated within the Project Report(s), some of these data may be preliminary "screening" level data and should be confirmed with quantitative analyses if more specific in-formation is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data may alter the basis of the conclusions and recommendations presented in the Project Report(s).

I. It is recommended that HRP be retained to provide further hydrogeologic and engineering services during the conduct of further exploration or the construction and/or implementation of any remedial measures recommended in HRP's Project Report(s). This is to allow HRP and the Client to observe consistency with the concepts and recommendations contained therein, and to allow the development of changes to the remedial program in the event that subsurface conditions or other conditions differ from those anticipated.

J. The services provided by HRP do not include legal advice. Legal counsel should be consulted regarding interpretation of relevant federal, state and local laws.

ATTACHMENT #5

SPILL CLOSURE DOCUMENTATION

HRP Associates, Inc.

Creating the Right Solutions Together

CONNECTICUT

Corporate Headquarters
197 Scott Swamp Road
Farmington, CT 06032
800-246-9021
860-674-9570
FAX 860-674-9624

999 Oronoque Lane
Second Floor
Stratford, CT 06614
203-380-1395
FAX 203-380-1438

FLORIDA

1817 Cypress Brook Drive
Suite 103
New Port Richey, FL 34655
888-341-7244
727-375-2323
FAX 727-375-2311

MASSACHUSETTS

7 Midstate Drive
Suite 201
Auburn, MA 01501
855-866-3934
508-407-0009
FAX 508-407-0012

NEW YORK

1 Fairchild Square
Suite 110
Clifton Park, NY 12065
888-823-6427
518-877-7101
FAX 518-877-8561

PENNSYLVANIA

2101 North Front Street
Building 4, Suite 201
Harrisburg, PA 17110
888-960-4018
717-836-7641
FAX 717-836-7924

SOUTH CAROLINA

1327 Miller Road
Suite D
Greenville, SC 29607
800-752-3922
864-289-0311
FAX 864-281-9846

TEXAS

P.O. Box 191329
Dallas, TX 75219
800-752-3922
FAX 864-281-9846

www.hrpassociates.com

December 17, 2013

Ms. Melissa Mastro
Environmental Engineer
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561-1696

RE: REQUEST FOR CLOSURE OF SPILL # 13-08885,
DOCCS BEACON CORRECTIONAL FACILITY, 50 CAMP BEACAON ROAD,
BEACON, NEW YORK (HRP # NEW7426.P2)

Dear Ms. Mastro:

On behalf of NYSDOCCs, HRP completed soil sampling at a previously registered and abandoned in place UST (UST-HU1). As a result of the soil sampling, laboratory results indicated low concentrations of petroleum related SVOCs near the UST. Therefore HRP noticed the NYSDEC Spill Hotline, and Spill Number 13-08885 was assigned.

Please find attached the analytical results and corresponding figure, which document the findings The analytical results indicate SVOCs, including the benzo group, chrysene and indeno(1,2,3-cd)pyrene, were detected at concentrations slightly exceeding their respective Residential Use SCOs, with one constituent slightly exceeding the Commercial Use SCO, in one soil sample, SB-22 (0'-3') collected in the area of the abandoned UST-HU1.

The two other soil samples collected in this area, SB-21 (9'-10') and SB-23 (10'-10.5'), at the estimated depth of the base of the UST (9-10 feet), were non-detect for SVOCs, which indicates the area of elevated SVOCs is minimal.

Due to the slight exceedences, limited extent of the SVOCs, and proper closure of the UST (circa 1998), we respectfully request closure of Spill #13-08885. If you require additional information or clarification, please contact HRP at (518) 877-7101.

Sincerely,

HRP ASSOCIATES, INC.

Jolene J. Lozewski
Senior Project Geologist

Attachments: Table, Figure

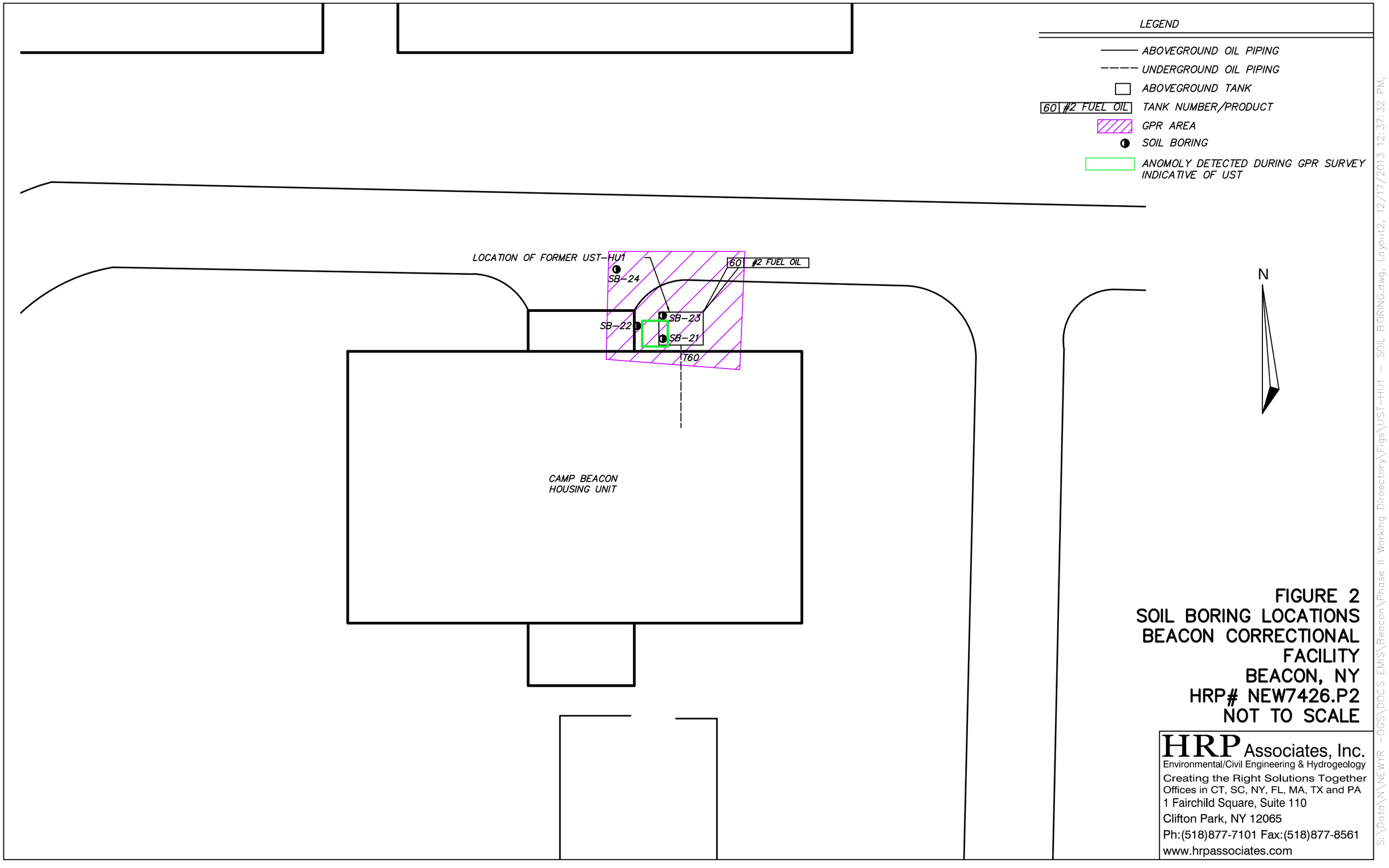

FIGURE 2
SOIL BORING LOCATIONS
BEACON CORRECTIONAL FACILITY
BEACON, NY
HRP# NEW7426.P2
NOT TO SCALE

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology
Creating the Right Solutions Together
Offices in CT, SC, NY, FL, MA, TX and PA
1 Fairchild Square, Suite 110
Clifton Park, NY 12065
Ph:(518)877-7101 Fax:(518)877-8561
www.hrpassociates.com

S:\Data\N\NEWYR -OGS\DOCS EMIS\Beacon\Phase II Working Directory\Figs\UST-HU1 - SOIL BORING.dwg, Layout2, 12/17/2013 12:37:32 PM,
DWG To PDF.pc3

Table 1
Camp Beacon Corectional Facility
50 Camp Beacon Road
Beacon, New York
375-6 SCO - Protection of Public Health - Unrestricted, Residential & Commercial SCOS & CP-51 Fuel Contaminated
Soil Boring Soil Samples - Analyzed for VOCs, SVOCs and 8 RCRA Metals
(Only detected constituents are listed)

	SB-21 (9-10)	SB-22 (0-3)	SB-23 (10-10.5)	NY Unrestricted Use Soil Cleanup	NY Restricted Use Soil Cleanup - Residential	NY Restricted Use Soil Cleanup - Commercial	NY CP-51 Soil Table 3 - Fuel Contaminated
Sample Depth (ft.)	**9-10**	**0-3**	**10-10.5**				
Date Collected	**11/14/2013**	**11/14/2013**	**11/14/2013**				
VOCs (ug/kg)							
4-Isopropyltoluene	ND<2.6 UJL	3.0 JL	ND<2.2 UJL	NE	NE	NE	10,000
Methylene chloride	7.4 JL, O01	9.8 JL, O01	5.9 JL, O01	50	51,000	500,000	NE
SVOCs (ug/kg)							
2-Methylnaphthalene	ND<51.4 U	ND<536 U, D	ND<51.4 U	NE	NE	NE	NE
Acenaphthene	ND<45.8 U	ND<477 U, D	ND<45.7 U	20,000	100,000	500,000	20,000
Anthracene	ND<45.9 U	487 J, D	ND<45.8 U	100,000	100,000	500,000	100,000
Benzo (a) anthracene	ND<48.2 U	2,360 D	ND<48.1 U	1,000	1,000	5,600	1,000
Benzo (a) pyrene	ND<49.0 U	2,490 D	ND<49.0 U	1,000	1,000	1,000	1,000
Benzo (b) fluoranthene	ND<39.1 U	2,620 D	ND<39.1 U	1,000	1,000	5,600	1,000
Benzo (g,h,i) perylene	ND<50.1 U	1,330 J, D	ND<50.0 U	100,000	100,000	500,000	100,000
Benzo (k) fluoranthene	ND<63.8 U	2,090 D	ND<63.7 U	800	1,000	56,000	800
Chrysene	ND<50.8 U	2,490 D	ND<50.8 U	1,000	1,000	56,000	1,000
Dibenzo (a,h) anthracene	ND<46.5 U	ND<484 U, D	ND<46.5 U	330	330	560	330
Fluoranthene	ND<50.3 U	4,010 D	ND<50.3 U	100,000	100,000	500,000	100,000
Fluorene	ND<50.1 U	ND<522 U, D	ND<50.0 U	30,000	100,000	500,000	30,000
Indeno (1,2,3-cd) pyrene	ND<49.9 U	1,490 J, D	ND<49.9 U	500	500	5,600	500
Phenanthrene	ND<48.0 U	2,380 D	ND<48.0 U	100,000	100,000	500,000	100,000
Pyrene	ND<43.5 U	3,580 D	ND<43.5 U	100,000	100,000	500,000	100,000
RCRA 8 Metals (mg/kg)							
Arsenic	3.15	5.92	3.83	13	16	16	NE
Barium	29.6	64.7	27.6	350	350	400	NE
Chromium	11.6	14.1	10.7	31	36	1500	NE
Lead	9.50	287	10.5	63	400	10,000	NE
Selenium	ND<0.448 U	ND<0.428 U	ND<0.465 U	3.9	36	1,500	NE
Mercury	0.0148 J	0.121	0.0190 J	0.18	0.81	2.8	NE

J	Detected above the Method Detection Limit but below the Reporting Limit; result is an estimated concentration
NE	Not Established
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram
SVOCs	Semi Volatile Organic Compounds
VOCs	Volatile Organic Compounds
D	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
O01	This compound is a common laboratory contaminant
U	Not Detected above laboratory detection limits
*	Trivalent chromium standard used

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Bulk Storage Database Search Details

Facility Information

Site No.: 3-074667
Status: Active
Expiration Date: 12/30/2016
Site Type: PBS
Site Name: BEACON CORRECTIONAL FACILITY
Address: 50 CAMP BEACON ROAD
Locality: BEACON
State: NY
Zipcode: 12508-0780
County: DUTCHESS

Owner(s) Information

Facility Owner: NYS DEPT CORRECTIONS
STATE CAMPUS BLDG NO 2 . ALBANY, NY. 12226
Mail Contact: NYS DEPT OF CORRECTIONS
STATE OFFICE CAMPUS . ALBANY, NY. 12226

Tank Information

26 Tanks Found

Tank No	Tank Location	Status	Capacity (Gal.)
12	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	4000
13	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	4000
14	Aboveground - in contact with impervious barrier	In Service	2000
15	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	2000
15D	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	60
17	Aboveground - in contact with impervious barrier	In Service	275
5	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	300

6	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	1000
60	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	3000
7	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	1000
ADMIN1	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	500
B03	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	500
BO8	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	Closed - Removed	275
BO9	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	Closed - Removed	275
G10	Underground	Closed - Removed	550
G11	Underground	Closed - Removed	550
GR5	Underground	Closed - Removed	550
GR8	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	500
HU1	Underground	Closed - Removed	3000
HU4	Underground	Closed - Removed	1000
HU5	Underground	Closed - Removed	1000
MA7	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	Closed - Removed	275
MAINT2	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	In Service	300
RC6	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	Closed - Removed	275
RO3	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	Closed - Removed	275
RO4	Aboveground - No Contact (on saddles, legs, rack, cradle, etc.)	Closed - Removed	275

Refine Current Search

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Spill Incidents Database Search Details

Spill Record

Administrative Information

DEC Region: 3
Spill Number: 1308885

Spill Date/Time

Spill Date: 12/05/2013 **Spill Time:** 08:43:00 AM
Call Received Date: 12/05/2013 **Call Received Time:** 08:43:00 AM

Location

Spill Name: BEACON CORR STATE PRISON
Address: 50 CAMP BEACON RD
City: BEACON **County:** DUTCHESS

Spill Description

Material Spilled	Amount Spilled	Resource Affected
UNKNOWN PETROLEUM	UNKNOWN	Soil

Cause: Unknown
Source: Institutional, Educational, Gov., Other
Waterbody:
PBS #: 3-074667

Record Close

Date Spill Closed: 01/08/2014

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either; a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.
Refine Current Search